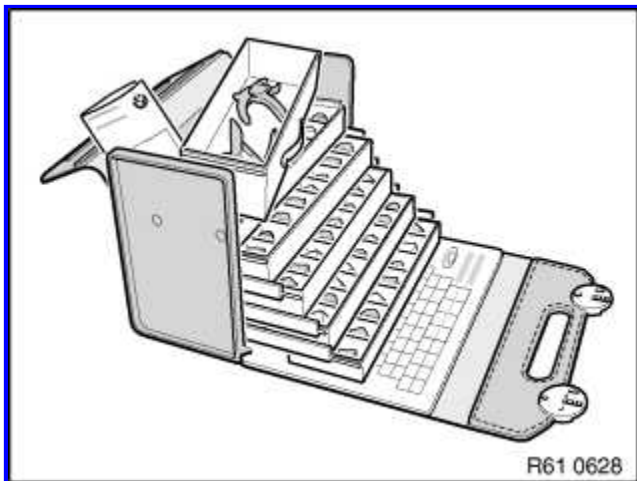


61 13 ...**Butt connector for repairing a plug connection****Special tools required:**

- [61 0 300](#)
- [61 4 340](#)
- [61 0 240](#)

**Important!**

1. Identify cause of damage (e.g. sharp-edged body components, faulty electrical loads, jammed mechanisms, corrosion caused by ingress of water, etc.).
2. Read out fault memory
3. Eliminate cause of damage.
4. Disconnect battery negative terminal
5. Make sure that no safety-related system according to circuit diagram (e.g. antilock braking system, active rear-axle kinematics, airbags, etc.) are influenced. Otherwise replace faulty wiring harness or use repair cable (sourcing reference: BMW Parts Department)
6. Carry out function test and read out fault memories again
7. Eliminate new faults if applicable and clear fault memories

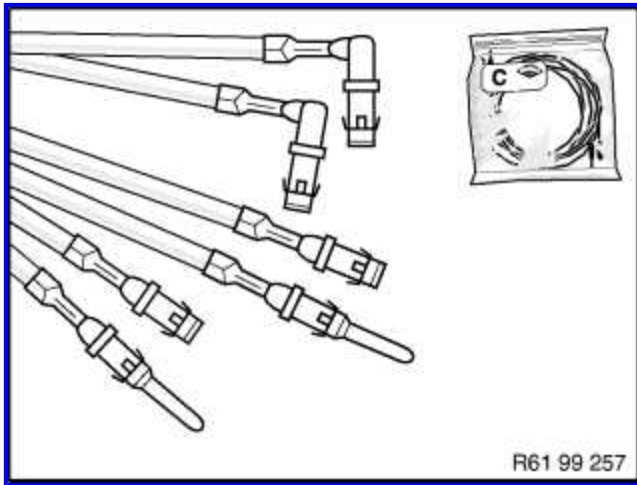
**Note:**

The repair range IV for vehicle electrical system contained the required special tools and individual parts for retrofitting and repair work with the aid of fan connectors.

The case can no longer be ordered. Order individual parts for wiring harness repair through BMW Parts Department.

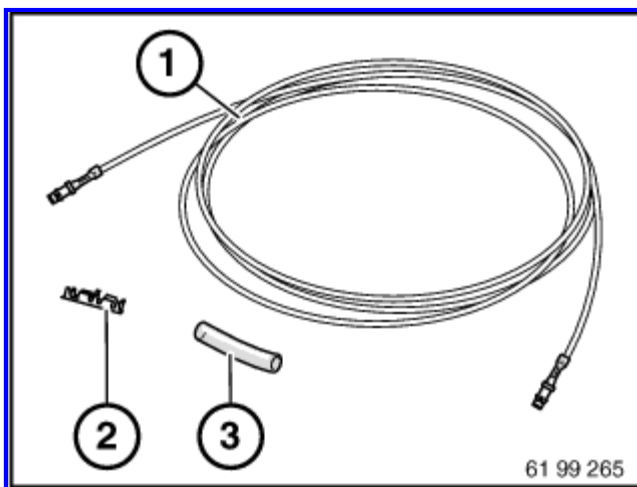
- Refer to Service Information:

[SI 02 04 07 341](#)



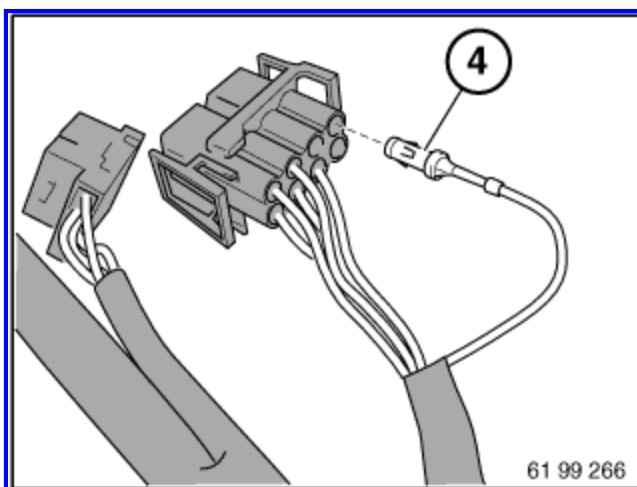
Choose repair kit.

Example: Repair kit, circular connector system D 2.5.



Remove following parts:

- (1) Pre-packaged end of cable with requisite wire cross-section
- (2) Crimp connector for selected wire cross-section
- (3) Shrink-fit hose



Open secondary lock on housing.

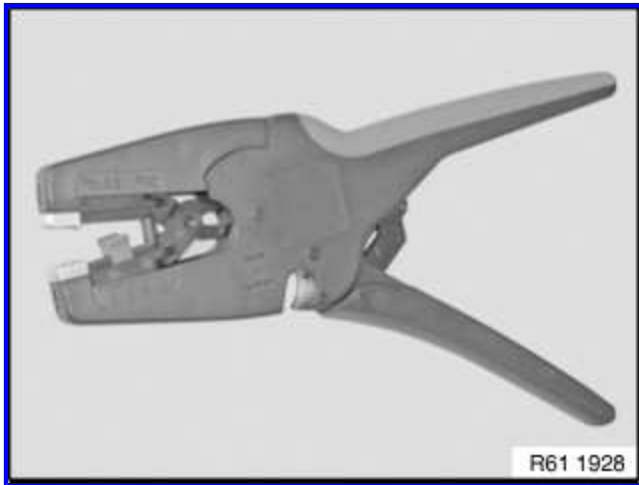
Mark damaged contact (4) with socket number of housing and press it out of housing using appropriate special tool contained in special tool set [61 0 300](#).

See repair instructions

[Notes for opening contacts and locks](#) of different plug contact systems.

Important!

- Check maximum length of repair cable
- If more than one wire is to be repaired, the individual interfaces must be offset so that the wiring harness is not too thick at the repaired point.

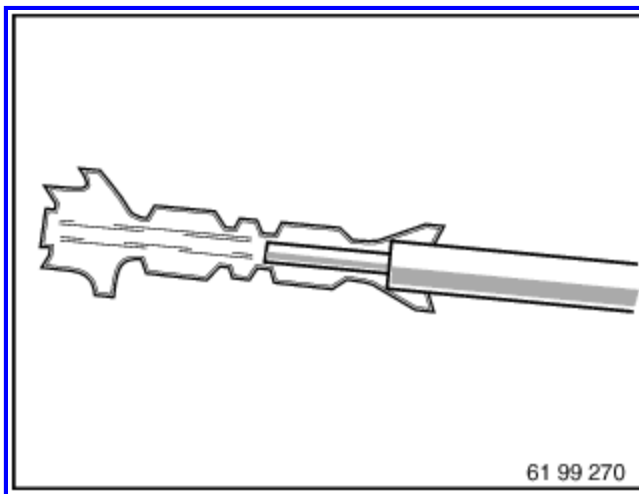


Adhere to following procedure:

- Cut off wire with faulty contact at point which is easily accessible
- Strip insulation from end of wire at wiring harness end
- Cut preassembled wire end to length and strip insulation

Refer also to repair instruction:

[Cutting to length and stripping insulation from cables](#)



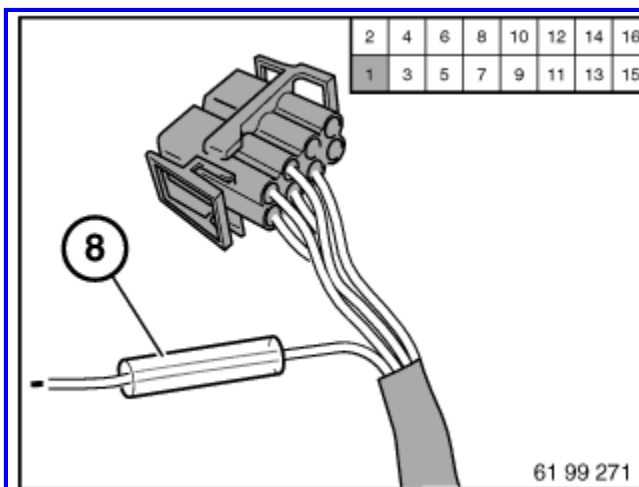
Crimp butt connector on preassembled wire end.

Special tools:

- [61 4 340](#) (0.35 - 2.5 sq mm)
- [61 0 240](#) (4.0 - 6.0 sq mm)

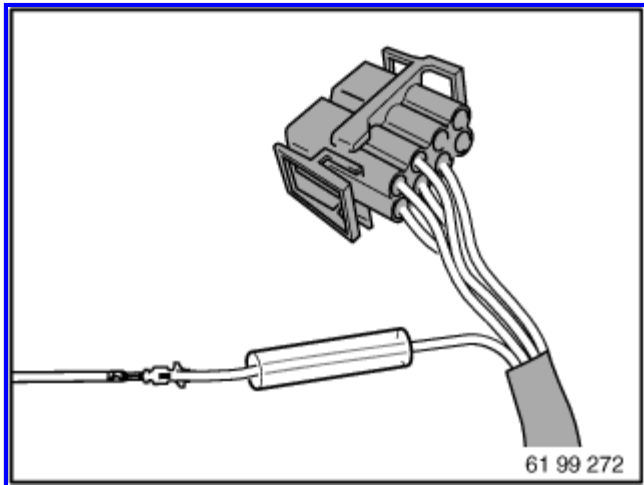
See repair instructions

[Crimping on stop parts](#)

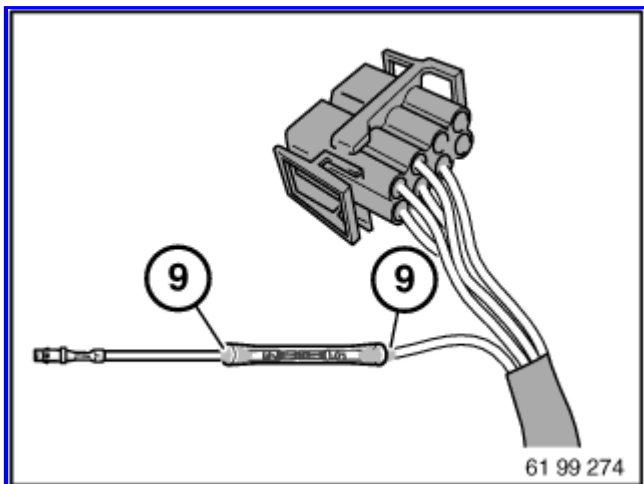
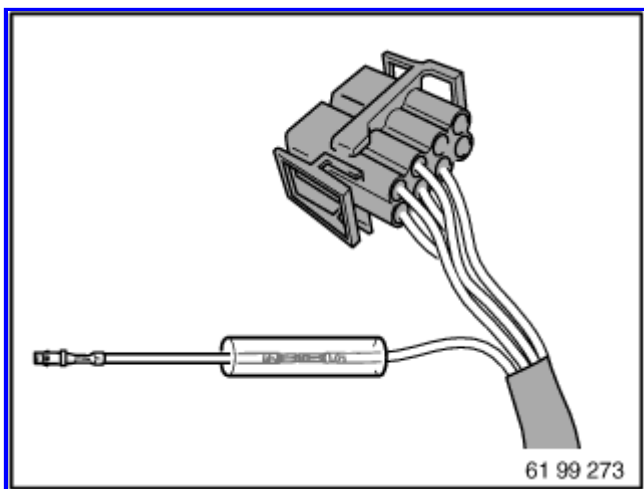


Push shrink-fit hose (8) onto free wire end.

Crimp unused wire end to butt connector.



Pull shrink-on sleeve over butt connector.



Important!

Do not burn shrink-on sleeve.

With hot air blower, shrink the shrink-on sleeve on both sides (9) of shrink-fit hose until glue emerges uniformly all round.

Insert contact in housing.

Close secondary lock on housing.