

Part No.	Part Name	Quantity
1	Spal Fan (Specifications are application dependent) - ALL Spall Relay Harness	1
2	185 Degree Fan Harness - CUSTOMER SPECIFIED (SOLD SEPARATELY) 195 Degree Fan Harness	1

BimmerWorld recommends you use Bentley Publisher's service manual for your specific model whenever attempting a complex service or part replacement project—Bentley Service Manuals are available from BimmerWorld!

NOTE: These instructions are intended as a guide only! Fitment will vary depending on application and existing modifications. BimmerWorld is not responsible for damages caused to any component as a result of poorly executed installation!

The Spal fan can be wired two ways:

- 1) As an auxiliary fan replacement using factory auxiliary fan wiring as a trigger
- 2) As a manually or thermostat controlled auxiliary fan replacement—Using new circuit

Mount Spal fan to radiator using either Spal Fan Bracket and Strap Mounting Kit or Electric Fan Quick Mount Kit (both sold separately). Mounting position and methods are application dependent.

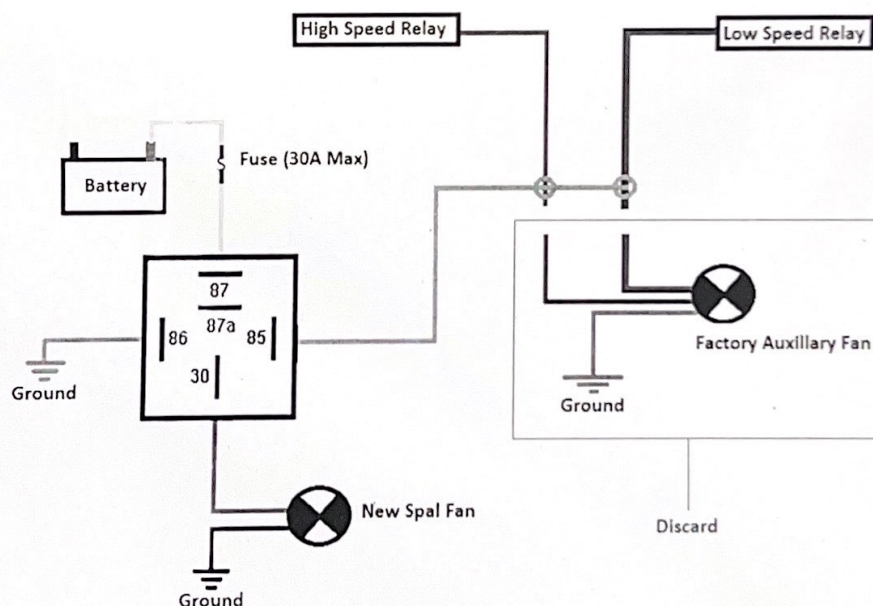
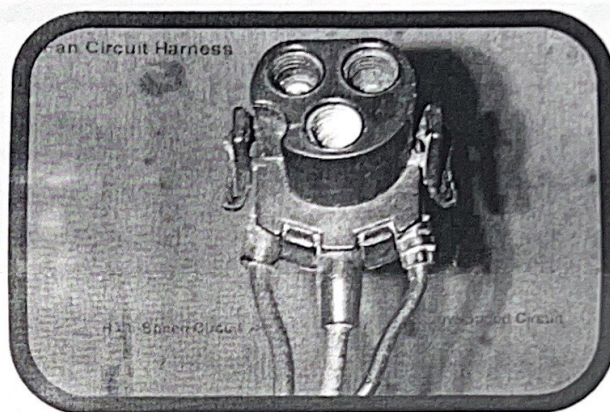
BimmerWorld strongly discourages reusing any factory wiring for carrying power to the fans. If the fans are an 'upgrade' from a factory fan they will draw more power/current and therefore require upgrading the wiring for proper function. You can usually maintain factory control of the fans, by using the existing vehicle harness to trigger a correctly wired/sized relay like in the fan install kits.

Connections should be soldered rather than crimped. Crimped connections tend to work loose in harsh and high-vibration environments. All connections should be sealed with heat shrink tubing.

OPTION 1: AUXILIARY FAN REPLACEMENT—FACTORY SENSOR CONTROLLED

Remove auxiliary fan and disconnect fan plug (shown below —located on driver's side lower radiator support). Cut three wires at base of plug. Splice blue and blue/black (high speed circuit and low speed circuit) wires together and to the orange wire from the Spal relay harness. Discard the brown ground wire from this plug. Splicing the two plug wires together guarantees that the Spal fan will run any time there is demand for air movement through the radiator. Mount fan to radiator and tie/wrap wires out of the way. Be sure to use heat shrink tubing on all connections.

1



OPTION 2: AUXILIARY FAN REPLACEMENT—USING SPAL RELAY AND THERMOSTAT

Install temperature sensor (included with Spal 185 or 195 Degree Relay Harness Kit) in "hot" coolant stream—driver's side of radiator for US models. Connect gray wire from Spal relay to temperature sensor.

Connect orange wire to "hot" in ignition (the circuit at the ignition switch that is hot only when the ignition is on) if you would like for the fan to turn off with the ignition regardless of coolant temperature. Connect orange wire to "always hot" circuit for fan to run until coolant cools below sensor's threshold. Connect all other wires as shown in diagram below.

2

