

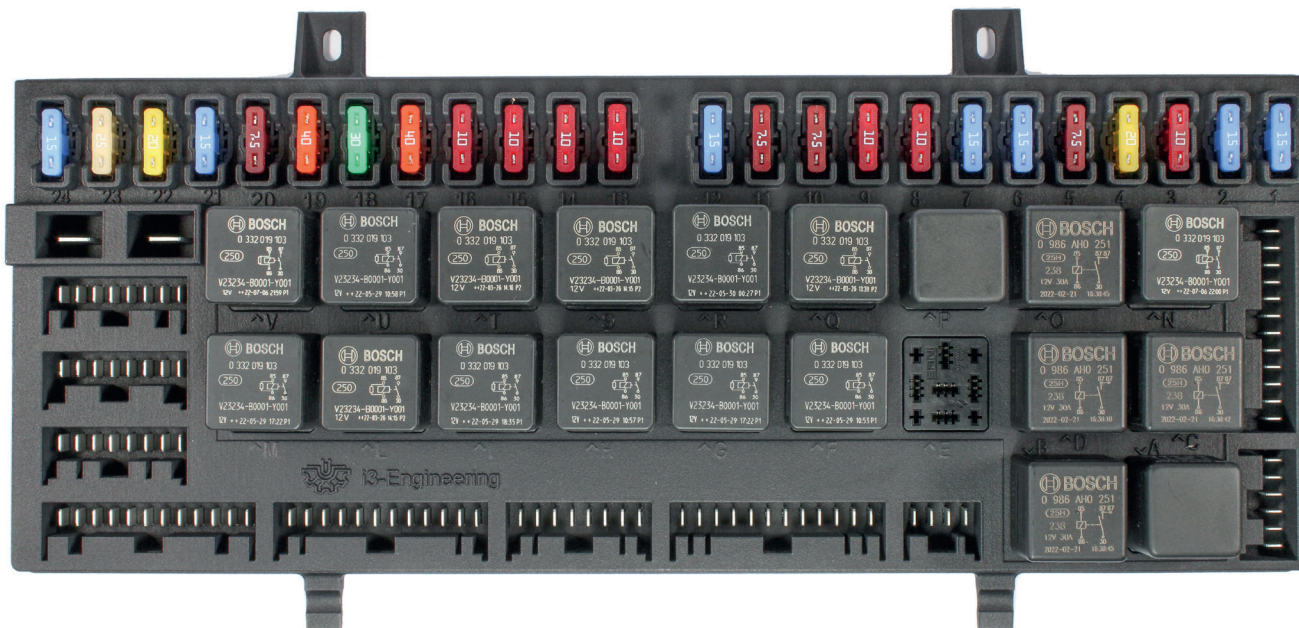
Fuse Box for Ferrari 550 Maranello

Optimized replacement fuse box in Press-Fit Technology



Challenge: Improve the reliability of the Ferrari 550 Maranello

The fuse box is a well-known weak spot of many older Ferrari cars. That's why i3-Engineering GmbH Switzerland has developed a replacement fuse box for the Ferrari 550 Maranello. This fuse box will be manufactured in low volume.



Highlights

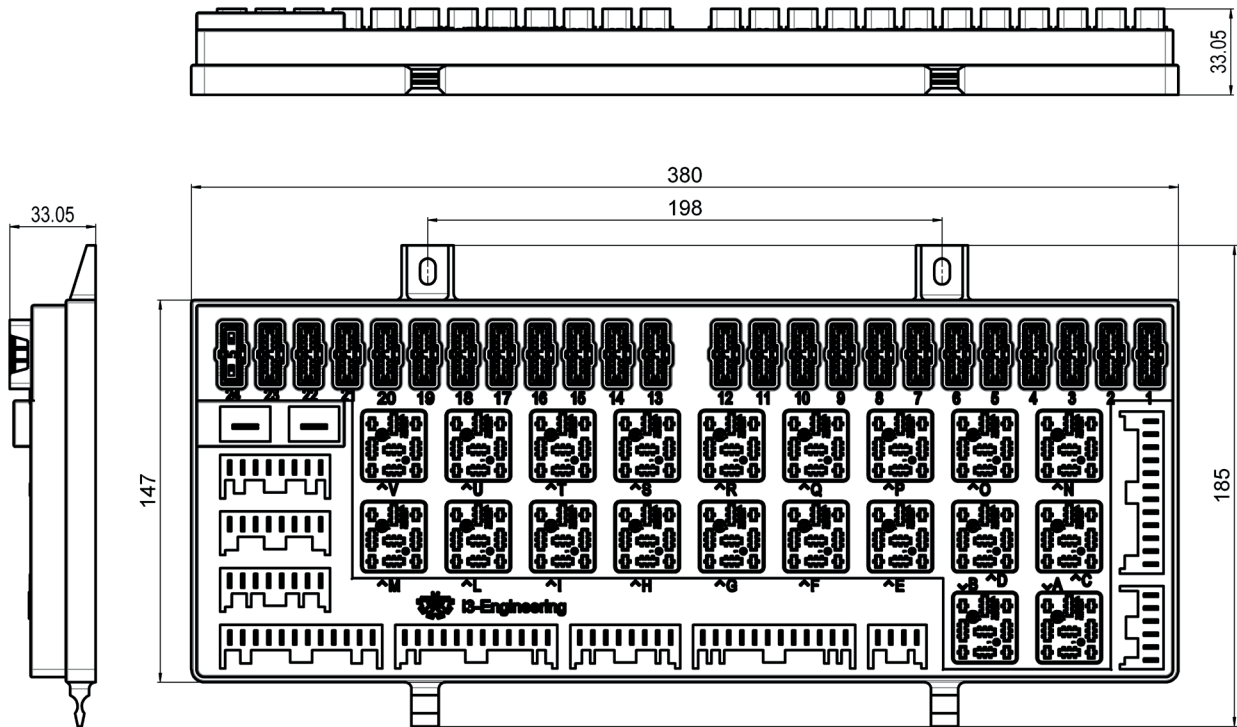
- ▶ The unit can be installed into the car without any special tools in a matter of minutes
- ▶ The fuse box comes fully assembled with all relays and fuses
- ▶ The units are 100 % electrically tested at the factory
- ▶ The applied press-fit technology is broadly used in the automotive industry even in safety critical applications like the electric power-steering
- ▶ Resistance of most connection inside the fuse box could be reduced to 50% compared to the original fuse box
- ▶ The design is based on a high quality 6-layer heavy copper PCB with a copper thickness on each layer of 210 µm or 6 oz. / ft.²



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Technical Data

Dimensions



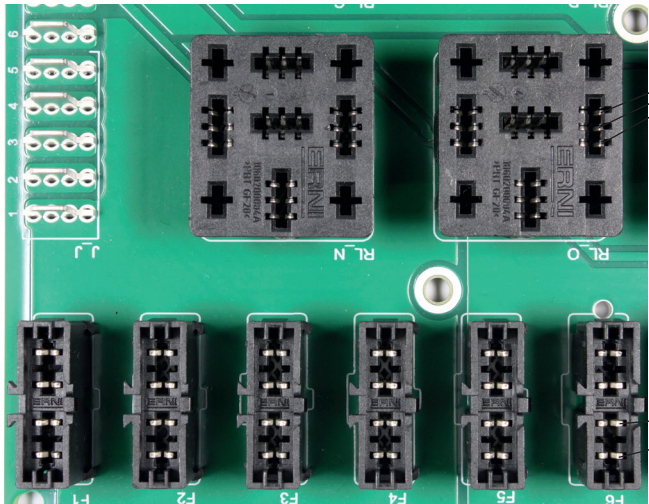
Specifications

Mass:	1.9 kg fully assembled with all relays and fuses
Housing material:	Polyamide PA12, black, flammability class UL94
Number of fuses:	24 ATO-Fuses
Number of relays:	19 Mini-Relays
Connectors:	4 x 8 positions FASTON 5 mm 4 x 12 positions FASTON 5 mm 1 x 6 positions FASTON 5 mm 1 x 4 positions FASTON 5 mm 1 x 2 positions FASTON 9.3 mm (power input)

Construction Technology

High quality components for better reliability

For the fuse holder and the relays sockets only high-quality components of world-class supplier have been used.

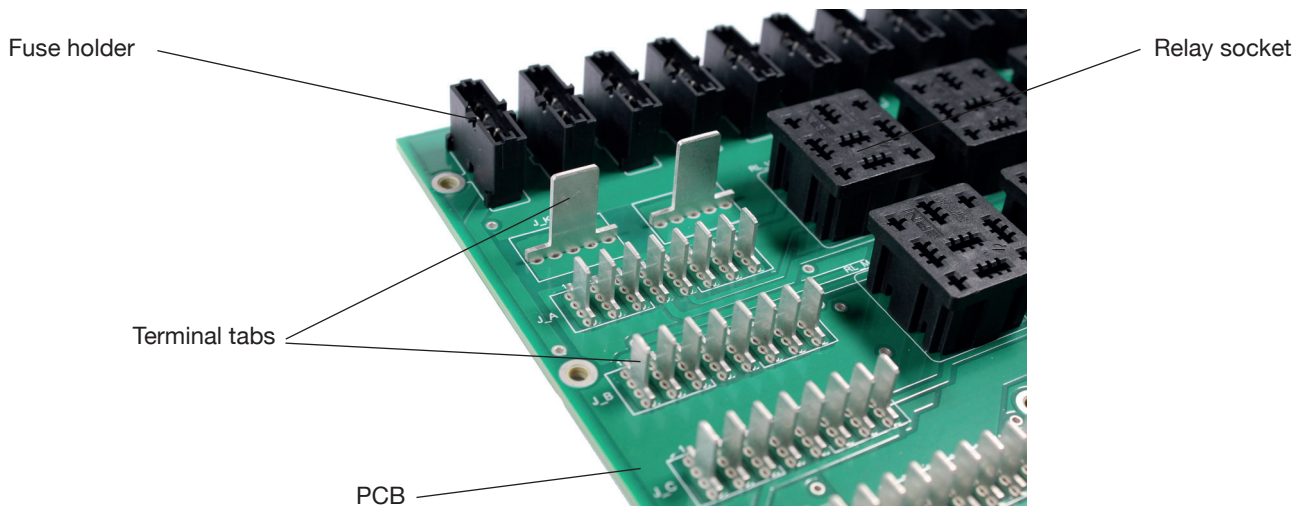


Relay socket:
3 double cantilever springs per terminal
resulting in 6 individually sprung contact points for each terminal

Fuse holder:
2 double cantilever springs per terminal
resulting in 4 individually sprung contact points for each terminal

Press-Fit Technology

The fuse holders, relay sockets and the terminal tabs will be inserted into tightly gauged holes of the PCB with a mechanical press. This result in a cold weld between the terminals and the copper conductor of the PCB yielding to a very low contact resistance.



Further information



Fuse boxes for other Ferrari cars

Fuse boxes for other Ferrari cars can be designed and manufactured on request and sufficiently demand is given.

For further inquiries

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