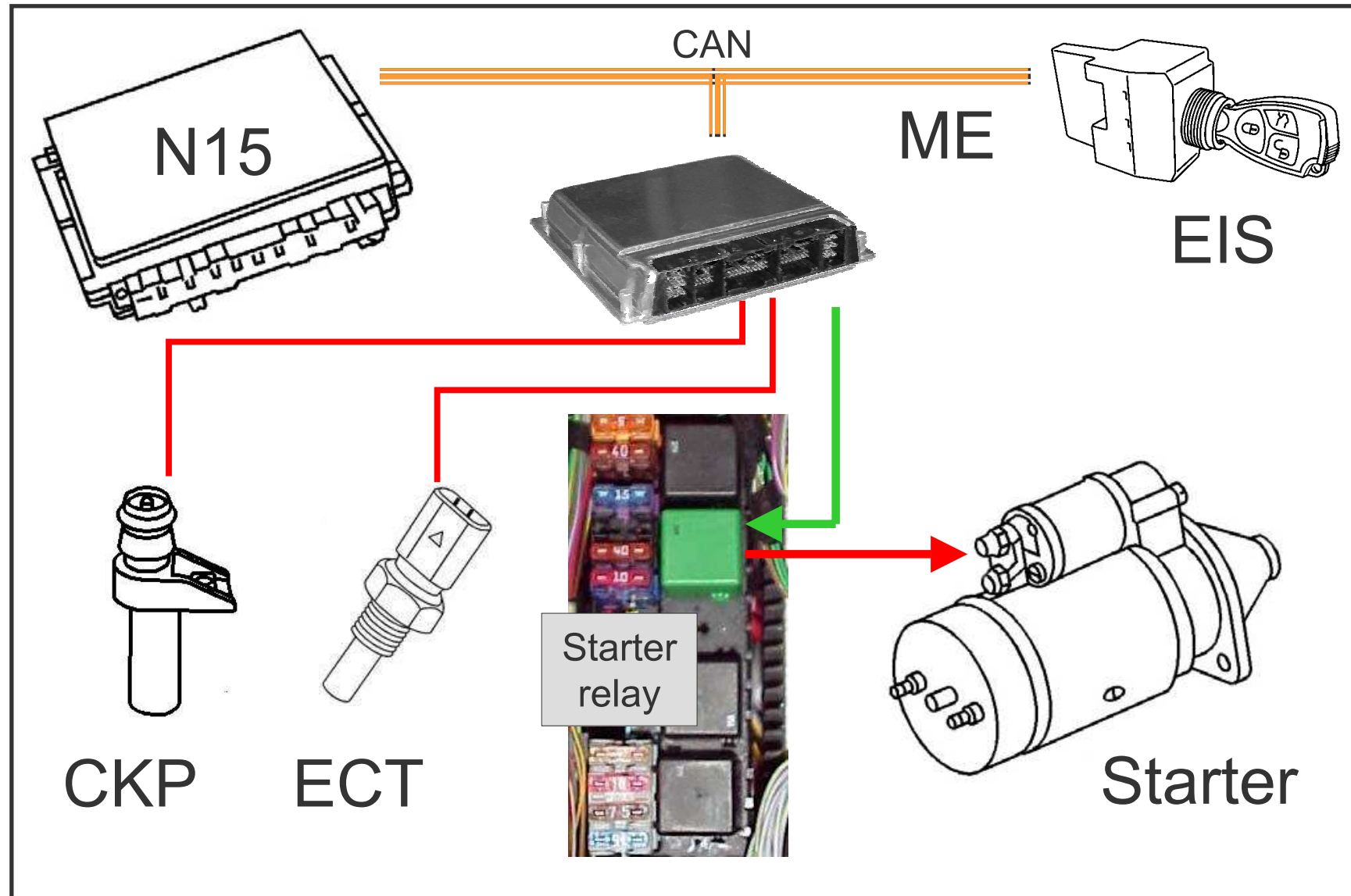


Tip Start

Advantages

- Customer convenience.
- Protect the flywheel.
- Protect the starter motor.
- Will ensure to a point that the engine will start on the first attempt.

Tip Start Activation



1. DAS authorized start signal, circuit 50 \geq 60mS
2. Coolant temp, RPM and P/N evaluated
3. Start relay activated

Tip Start Relays



Location varies with application:

Fuse/relay area

Module box

Separate control module



Tip Start Deactivation

- When the ignition is switched off.
- When the engine control module recognizes the engine is running. (Engine speed of 400 to 600 RPM is reached.)
- When the maximum starting time limit is exceeded. (Temperature dependent.)