Unique
Automotive
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MB Comand NTG 5.5/6.0 Video in Motion Module

Installation Guide

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WARNING

This device is designed solely for use by properly trained and qualified automotive electronics experts, who are familiar with the dangers related to handling electrical equipment and systems. This manual intends to serve as a guide in the installation of adapter, failure to follow these instruction could result in a hazardous condition, destruction of car equipment and the engine type converter.

DISCONNECT ANY CHARGING EQUIPMENT BEFORE INSTALLATION AND CODING:
CAR BATTERY CHARGER, NOTEBOOK CHARGER, ETC.

There are NO user serviceable parts contained in the converter. Unscrewing or opening your converter will render your warranty void. If your retrofit adapter require repair, please contact us directly and we will assist you.

The manufacturer is not legally responsible for any equipment damage or personnel injury caused by incorrect installation by unqualified technicians.

Preface

This document will help you install the Mercedes Benz Comand NTG5.5/6.0 Video in Motion Module to eliminates the blackout on the factory monitor while driving.
Device support all hardware and software versions of Comand NTG5.5/6.0

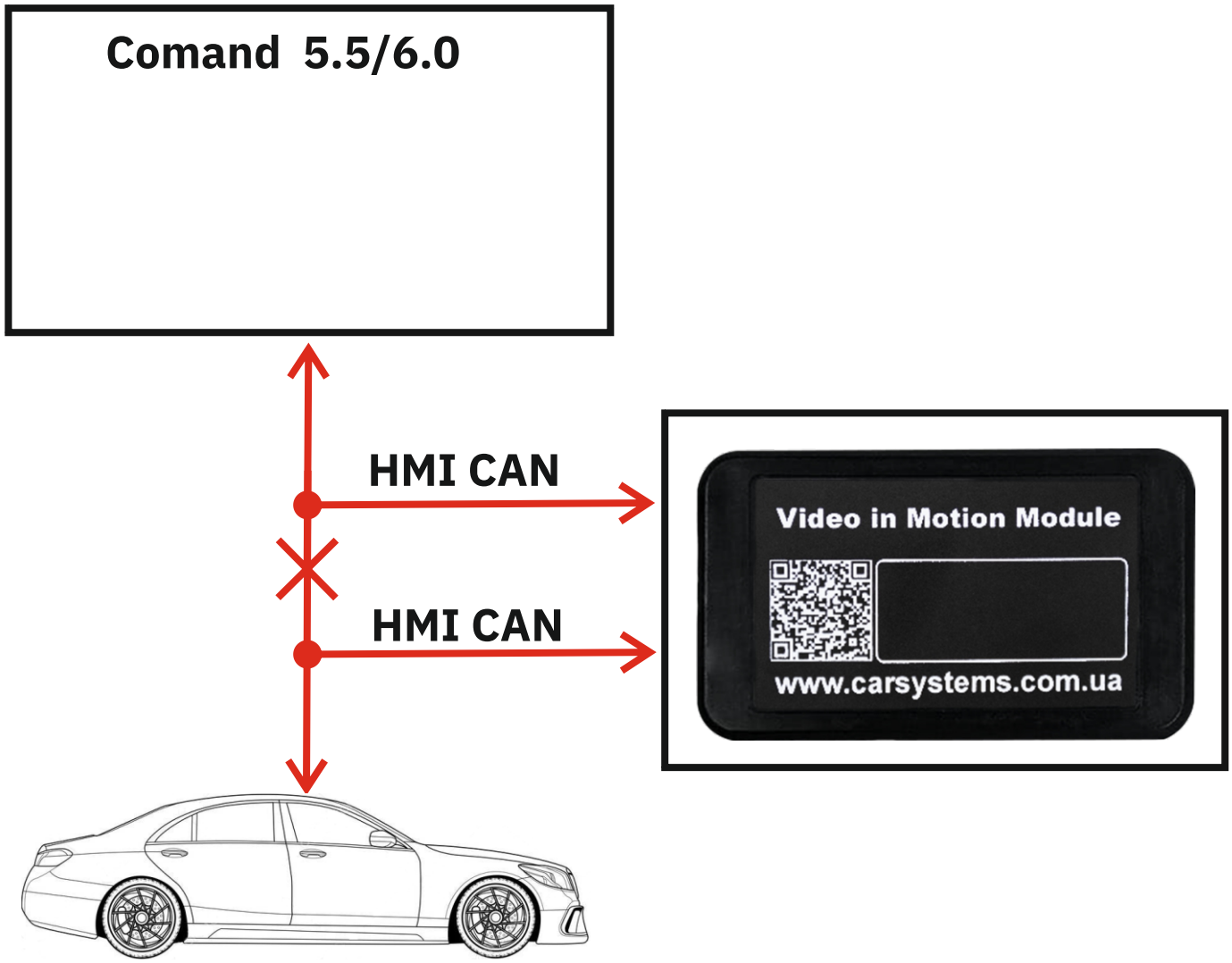
Audience

This document is intended for CarSystems customers, partners, and employees to get familiar with Mercedes Benz Comand NTG5.5/6.0 Video in Motion Module. It provides instructions and graphical content for a user to get started with his first installation.

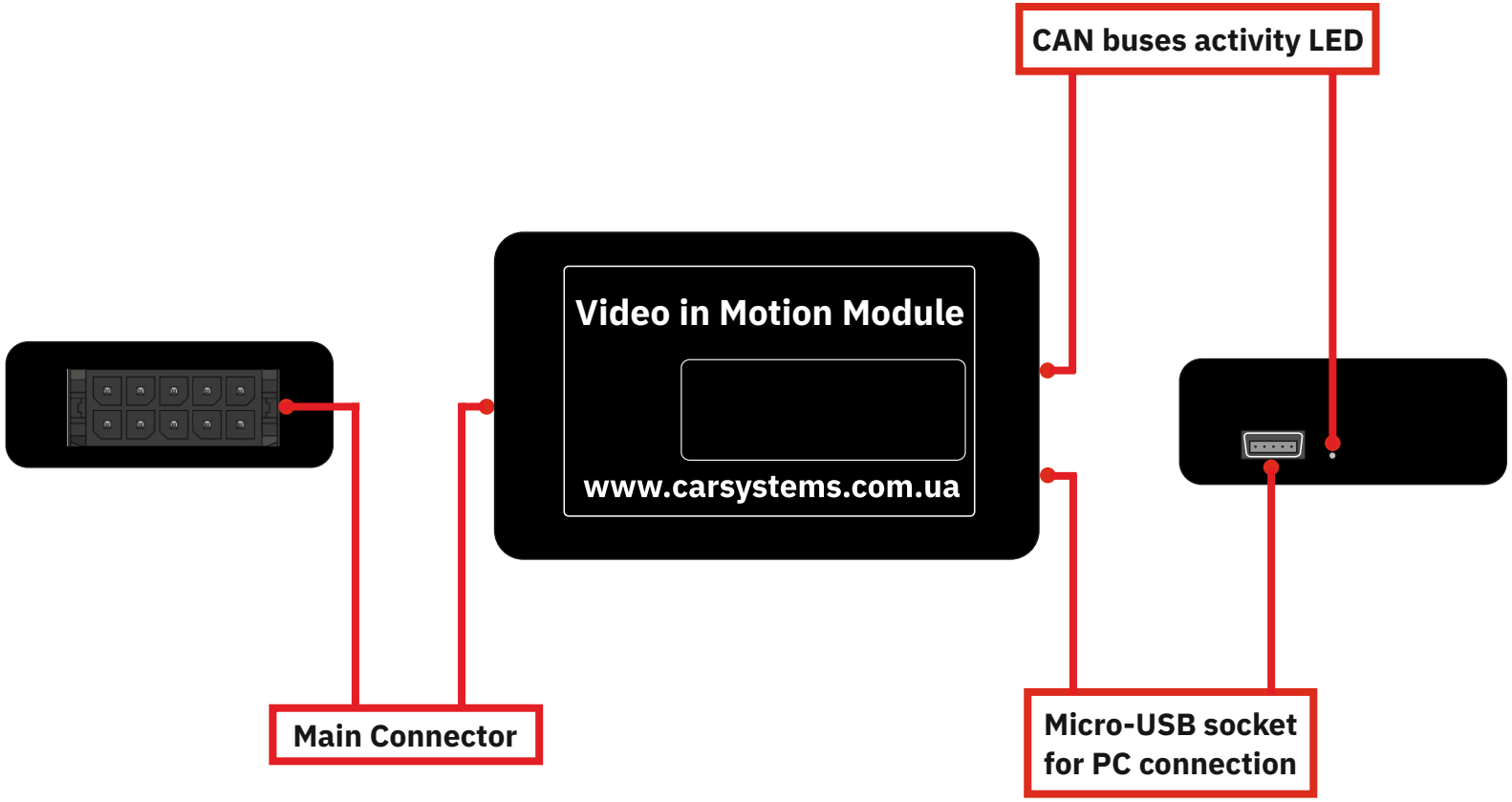
Pre Installation Skills

This document expects that you are familiar with automotive electronics, knowledge and experience in that field. High automotive diagnostic skills are welcome.

Block Diagram

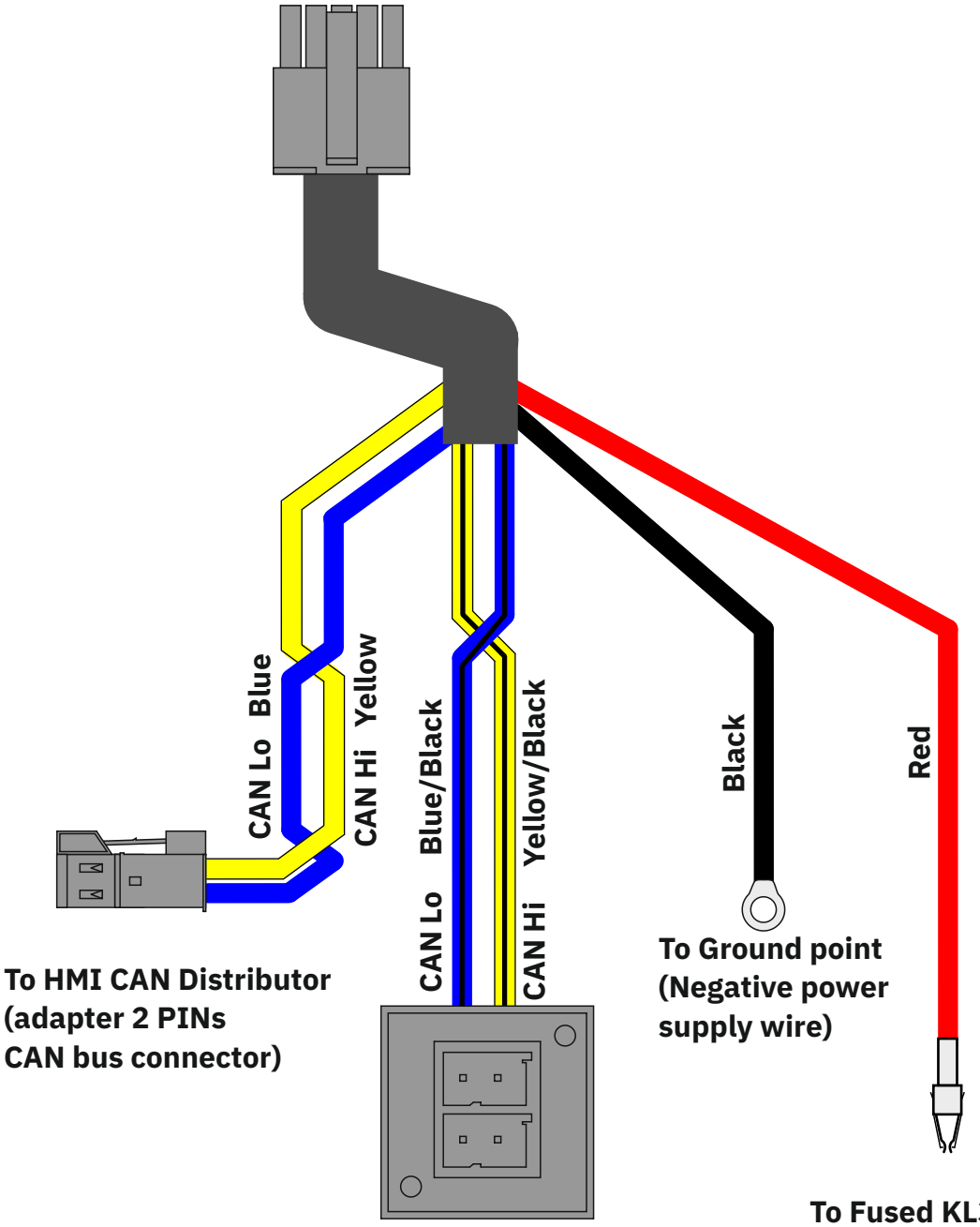


Converter connection points



Wiring Harness

**To “Main Connector” of MB Comand NTG 5.5/6.0
Video in Motion Module**



**To HMI CAN Distributor
(adapter 2 PINs
CAN bus connector)**

**To Ground point
(Negative power
supply wire)**

**Connect with Comand
HMI CAN connector**

**To Fused KL30t in Fuse
Box (Positive power
supply wire)**

HMI CAN Potential Distributor, positive point and ground point location

Converter connection points - depending on the car body model (see the table below)

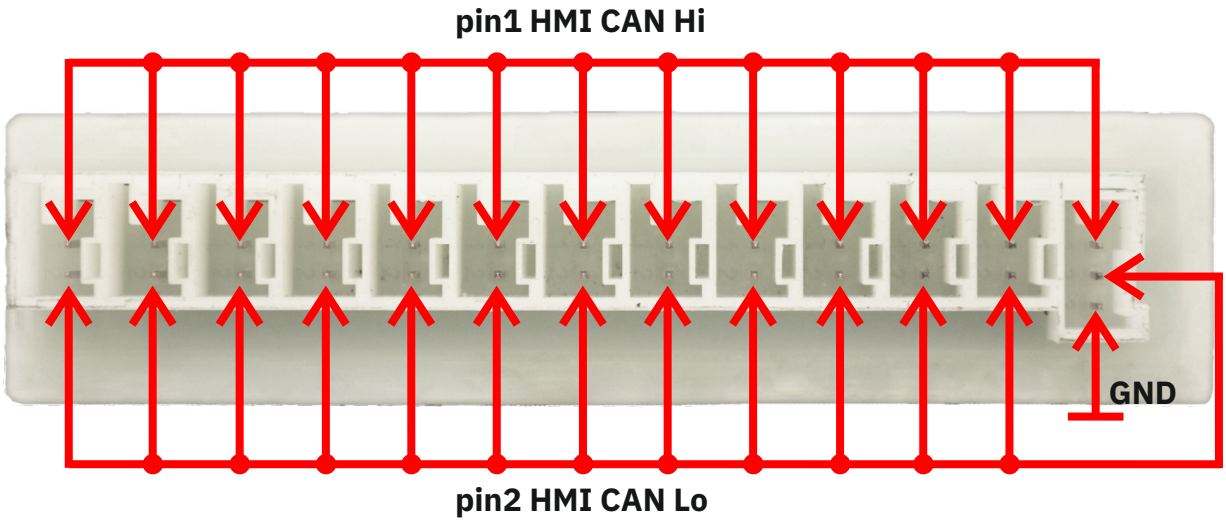
Body type	HMI CAN Distributor	HMI CAN Color	Positive point	Ground point	Notation
W118	X30/20	Violet/White Violet	Fuse f118 (F152/4)	W15/5	pages 13-15
W167	X30/20	Violet/White Violet	Fuse f332 (F151/1)	W19	pages 16-18
W177	X30/20	Violet/White Violet	Pin 16 X11/4x1 (OBDII)	W15/5	pages 19-21
W205 Facelift	X30/20	Yellow/White Yellow	Fuse f307 (F1/3)	W15/7	pages 22-24
W213	X30/20	Violet/White Violet	Fuse 1 (MF1 F1/3)	W34/3	pages 25-27
W213 Facelift	X18/53x1	Violet/White Violet	Fuse f212 (K40/6)	W34	pages 28-30
W217 Facelift	X30/20*	Violet/White Violet	Fuse f308 (F1/3)	W34	pages 31-33
W222 Facelift	X30/20*	Violet/White Violet	Fuse f210 (K40/6)	W34	pages 34-36
W238	X18/53x1	Violet/White Violet	Fuse 1 (F1/3MF1)	W34	pages 37-39
W238 Facelift	X18/53x1	Violet/White Violet	Fuse f206 (K40/6)	W34	pages 40-42
W247	X30/20	Violet/White Violet	Pin 16 X11/4x1 (OBDII)	W34	pages 43-45
W253 Facelift	X30/20	Yellow/White Yellow	Fuse f306 (F1/3)	W34/3	pages 46-48
W257	X30/20	Violet/White Violet	Fuse 1 (MF3 F1/3)	W34/3	pages 49-51
W257 Facelift	X18/53	Violet/White Violet	Fuse f414 (K40/6)	W34	pages 52-54
W463	X30/20	Violet/White Violet	Fuse F308 (F1/3)	W29/2	pages 55-57

*** - reverse pinout. Pin2 - CAN HMI Hi, Pin1 - CAN HMI Lo (see next page)**

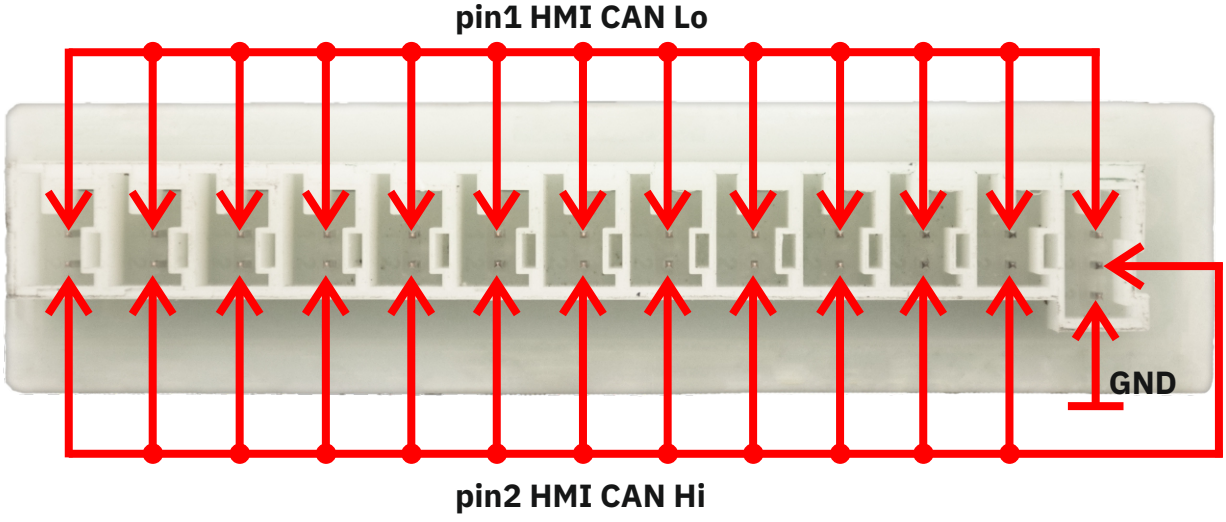
HMI CAN Potential Distributor pinout

HMI CAN potential distributor pinout - depending on the car body model (see pictures below)

W118, W167, W177, W205FL, W238, W238FL, W247, W253FL, W257, W257FL, W463



W217FL, W222FL



CAN bus harness identification

1. Switch on the ignition.
2. Remove the connectors from the HMI-CAN distributor one by one.
3. Each step must be accompanied by a loss of communication with a specific control unit.
4. When the Comand loses communication, it will blackout in 15s delay. In this way you define HMI-CAN bus harness.

Converter installation

1. Identify HMI-CAN Distributor, fuse box and ground point (see page 8).
2. Connect the black wire (see page 7) from the adapter to the ground point.
3. Connect the red wire (see page 7) to the fuse in Fuse Box (see page 8 and appendixes).
4. Connect CAN buses (see pages 5, 7, 8 and appendixes).

Package list

1. Mercedes Benz Comand NTG5.5/6.0 Video in Motion Module - 1pcs
2. Wiring harness - 1pcs
3. Fuse 1A - 1pcs

Contacts

Mail:	support@carsystems.com.ua
Telephone:	+38 (096) 809-00-11
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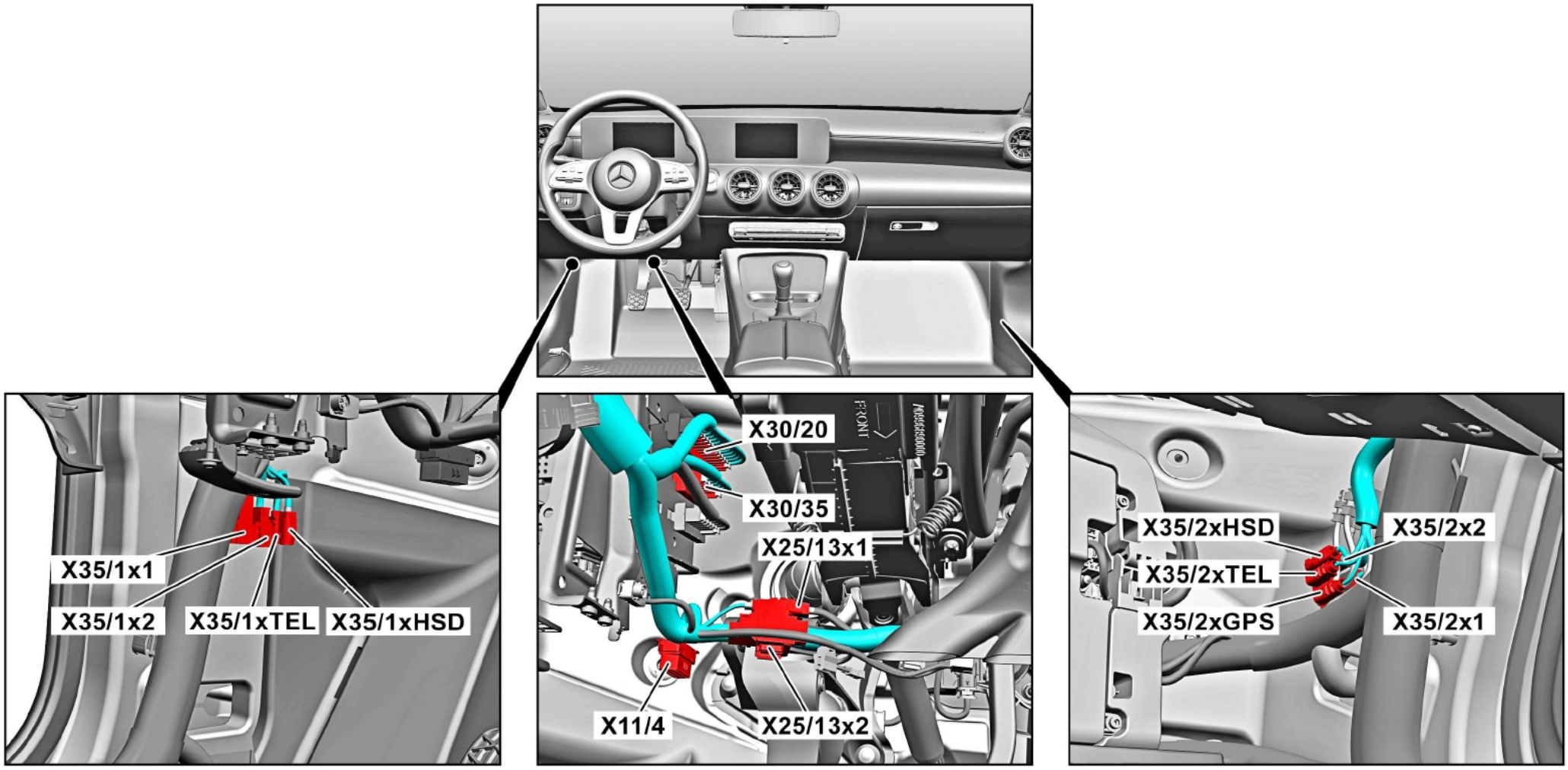
Telegram:	@CarSystems_Support

We provide technical support during our working hours:

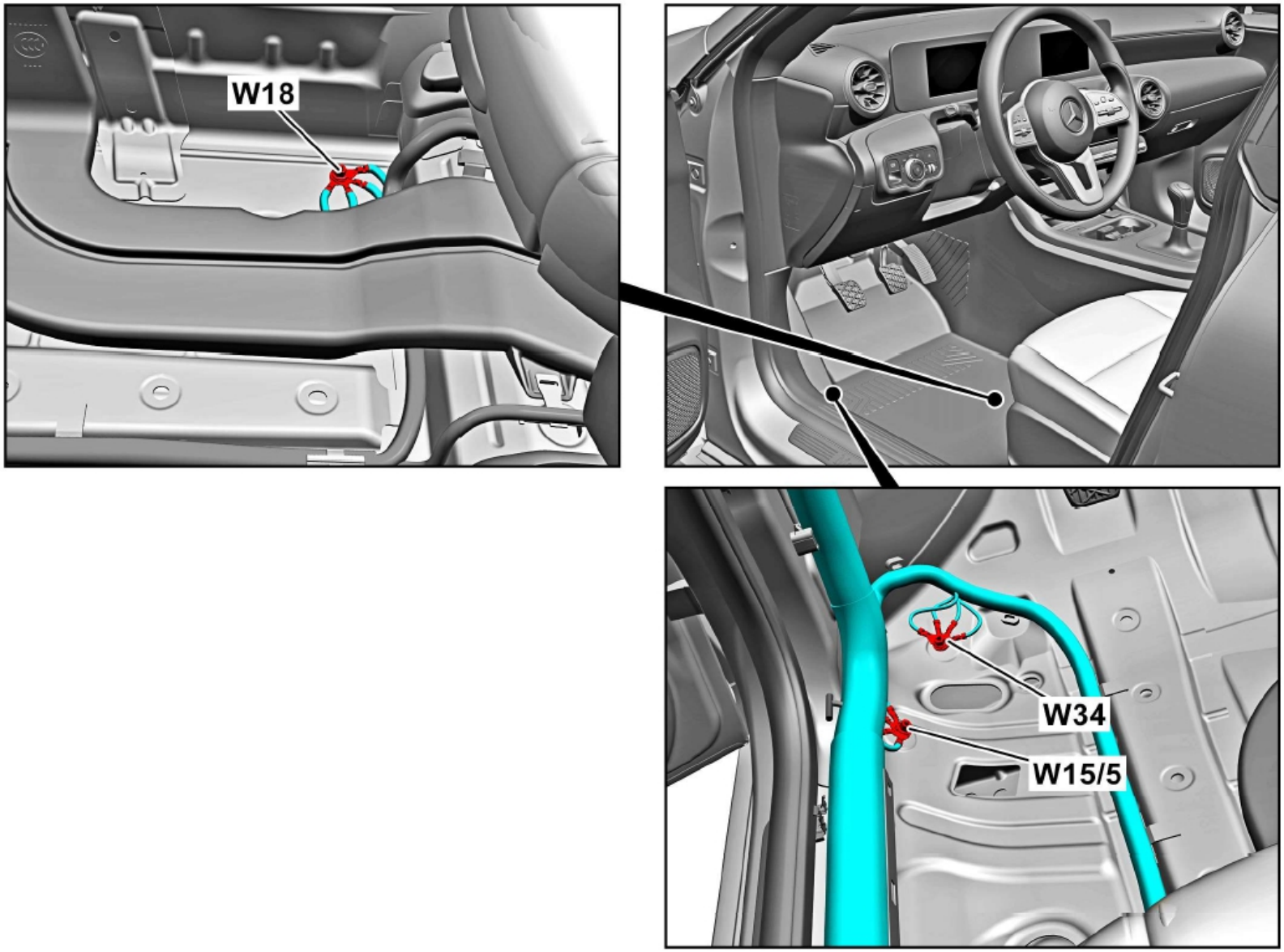
Monday to Friday (except public holidays),
from 10:00 to 19:00 (UTC+2:00).

Due to the increasing amount of unsolicited emails we tightened anti-spam. If your letter has not been delivered, please contact us via Skype or through the inquiry form in our website **carsystems.com.ua**

Appendix 1. W118 X30/20 location

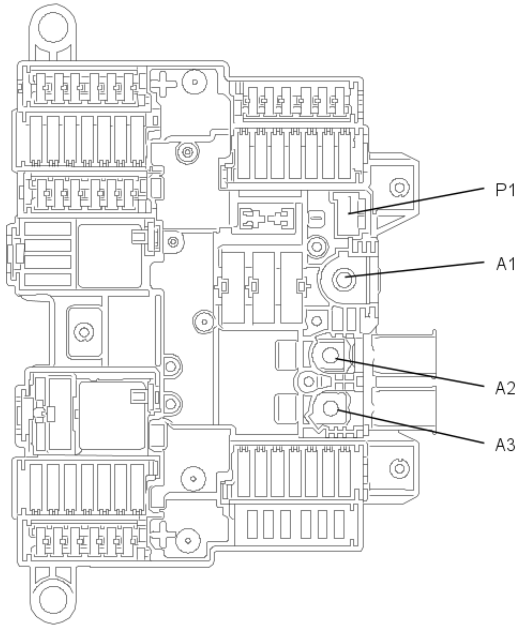


Appendix 2. W118 ground point W15/5 location

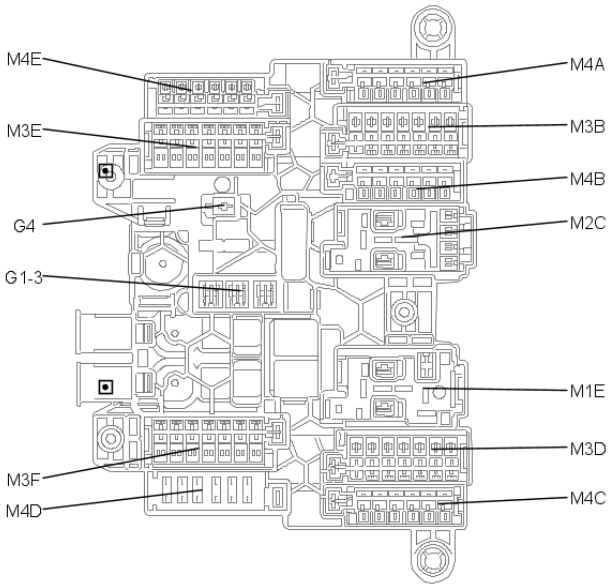


Appendix 3. W118 F152/4 fuse and relay module location

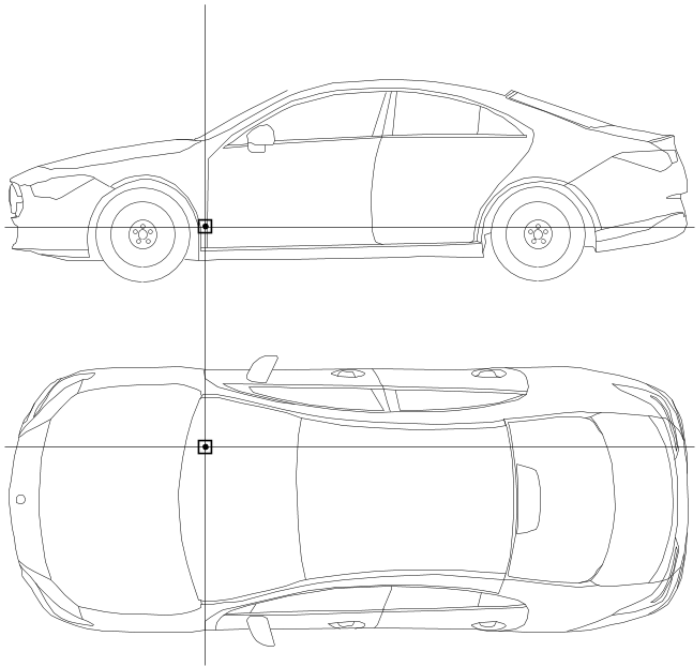
F152/4



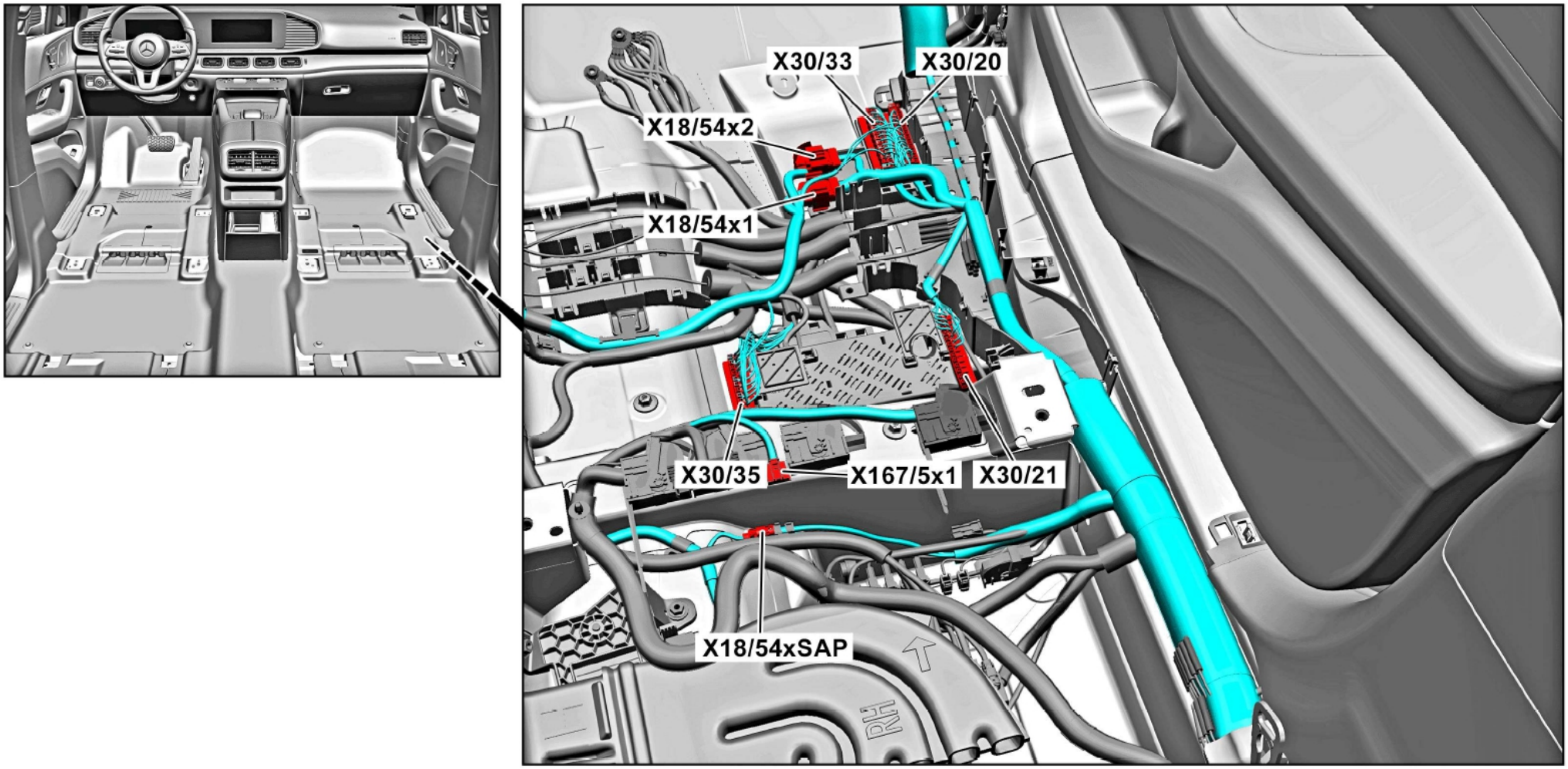
F152/4



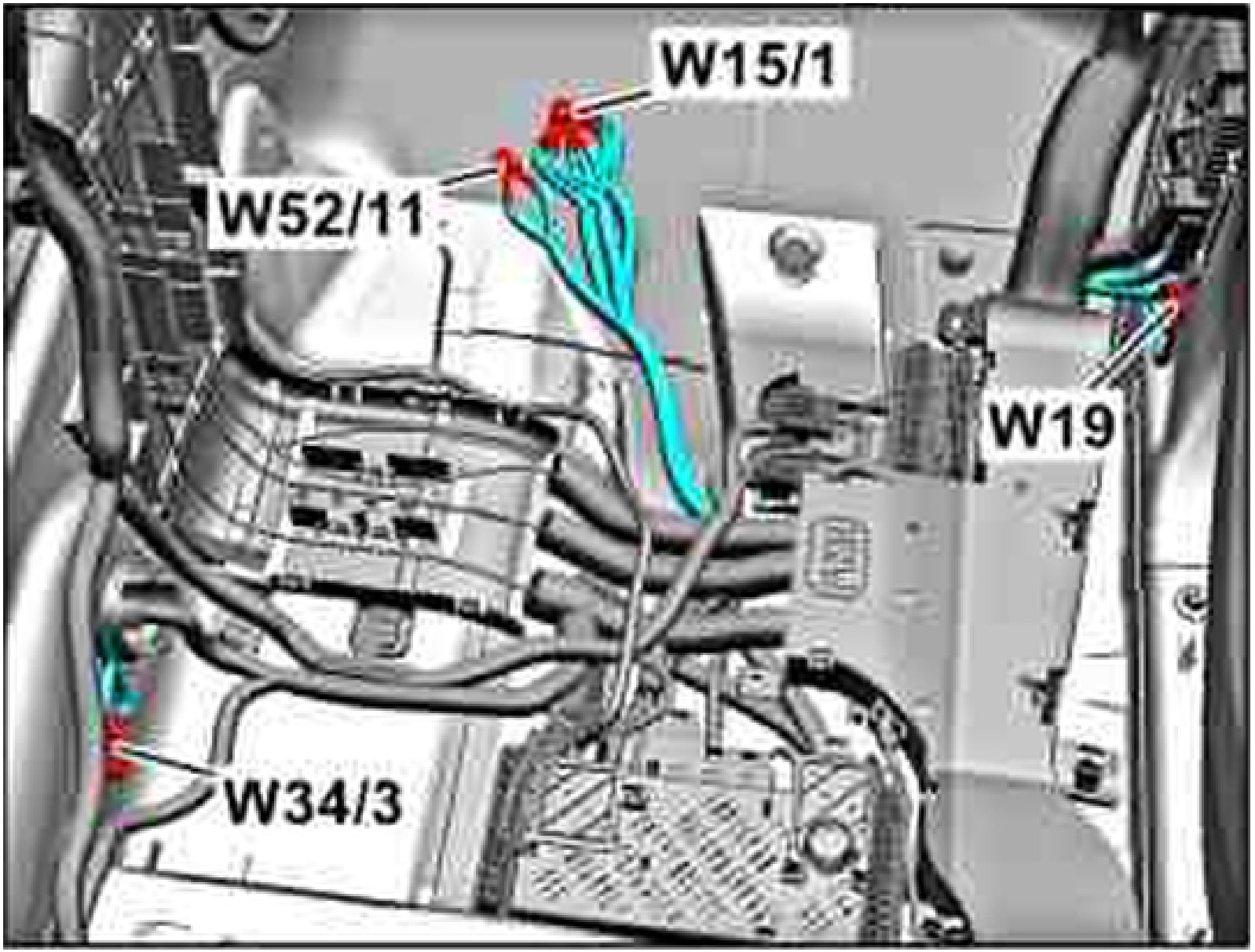
F152/4



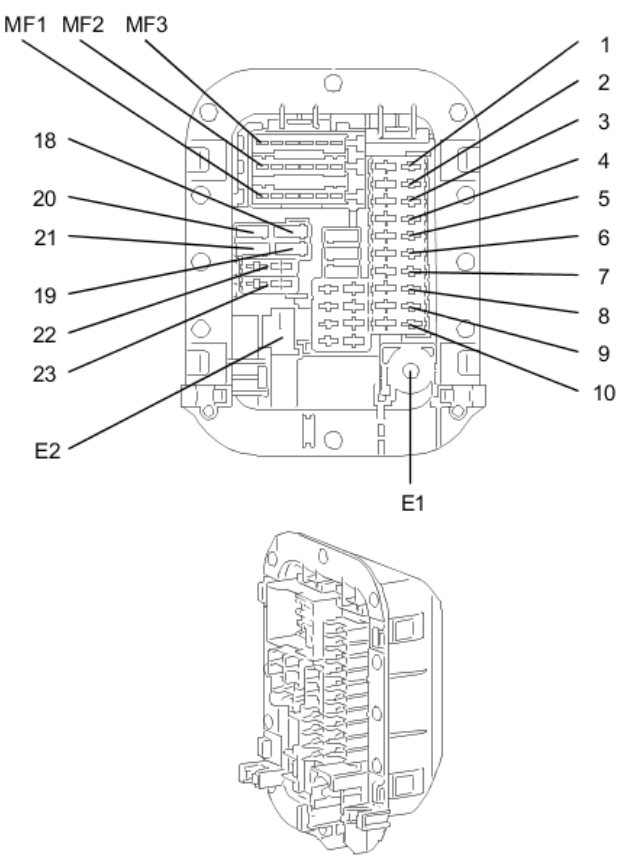
Appendix 4. W167 X30/20 location

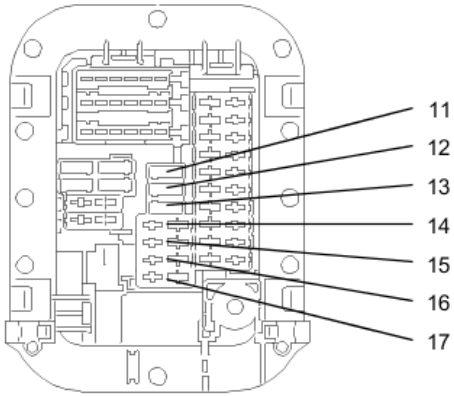


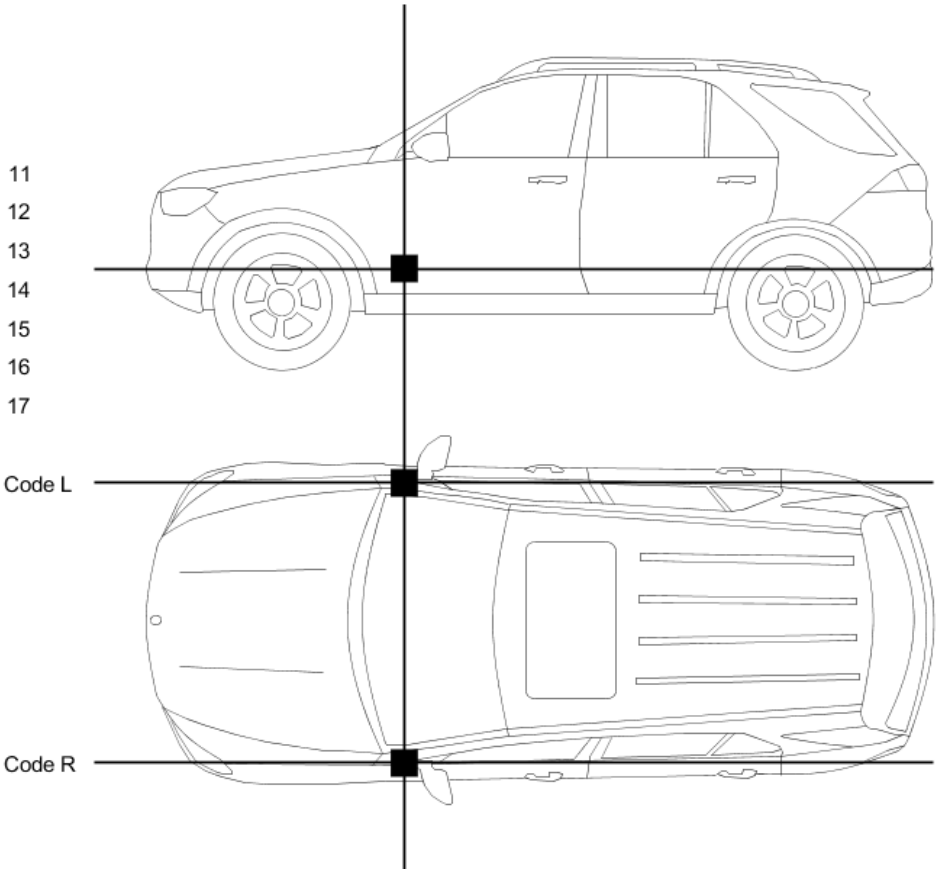
Appendix 5. W167 ground point W19 location



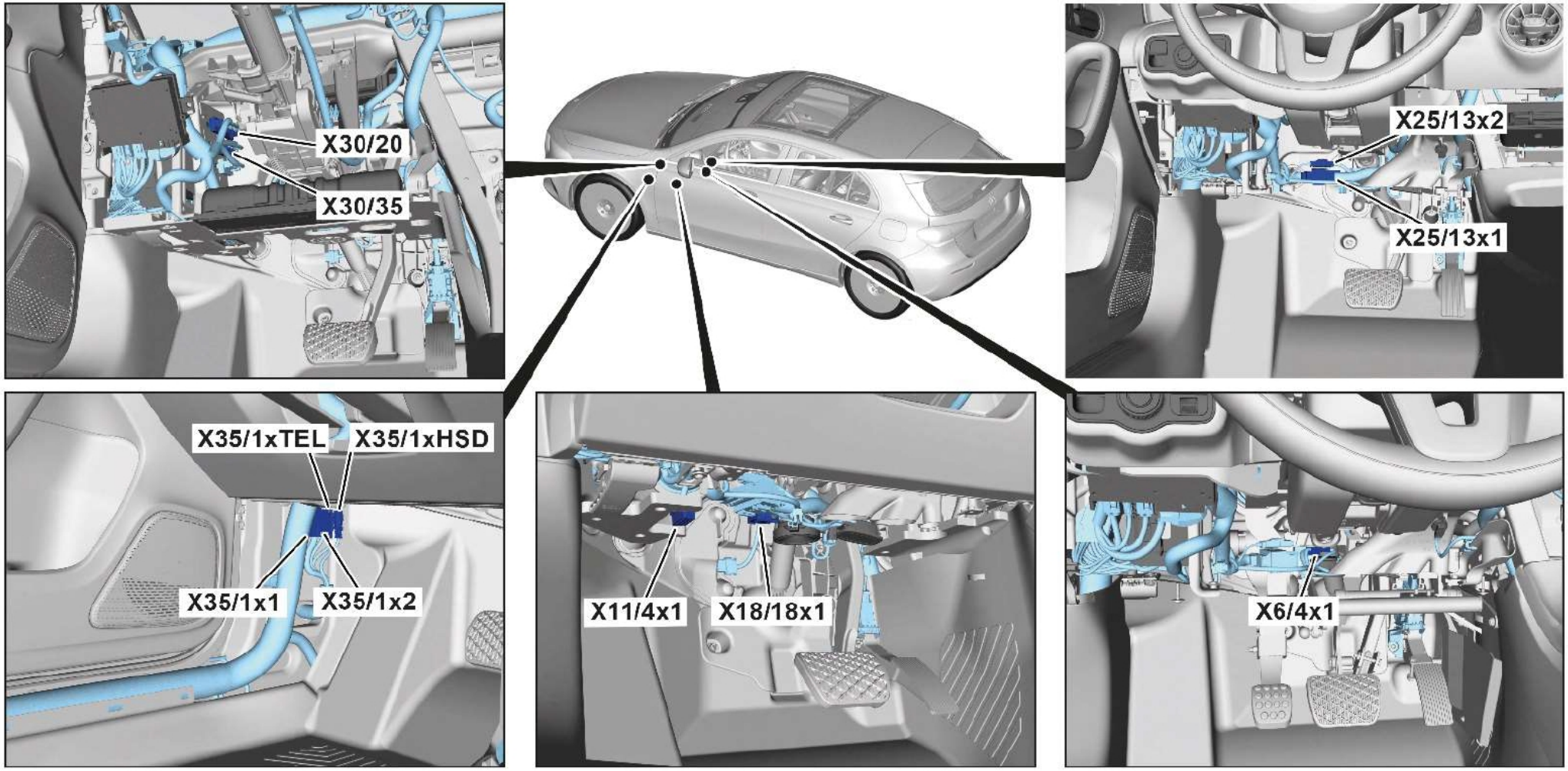
Appendix 6. W167 F151/1 fuse and relay module location



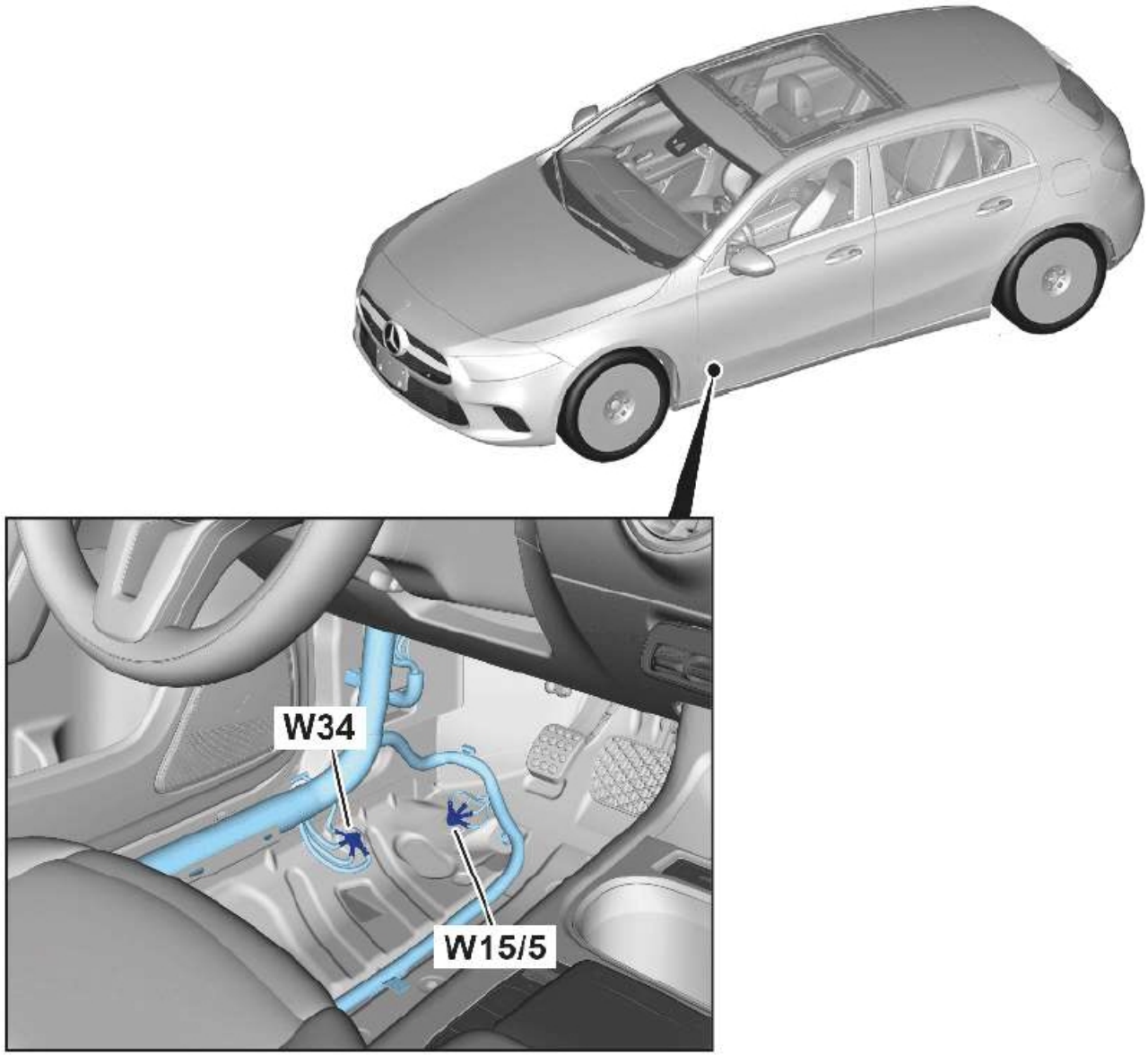




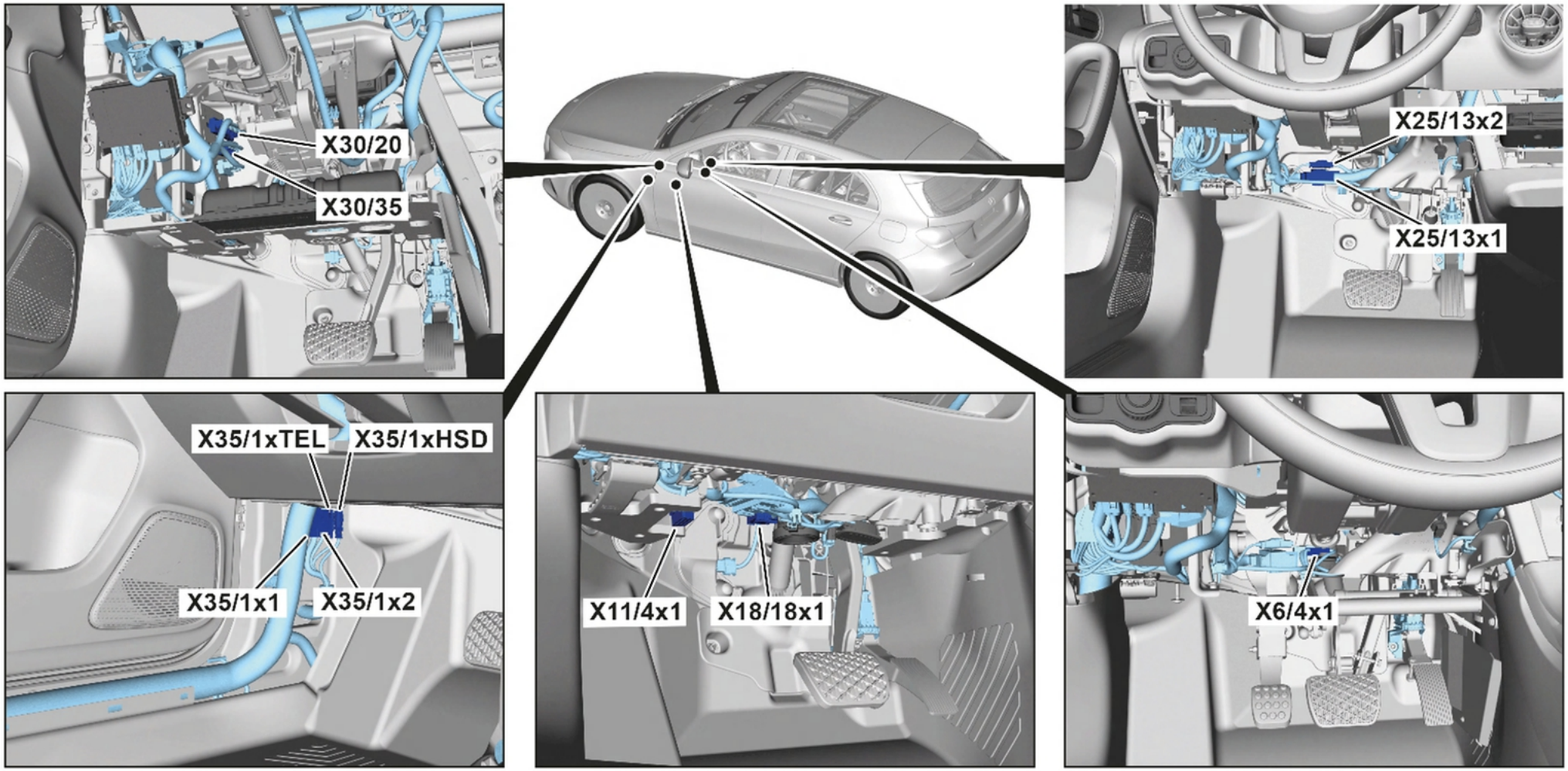
Appendix 7. W177 X30/20 location



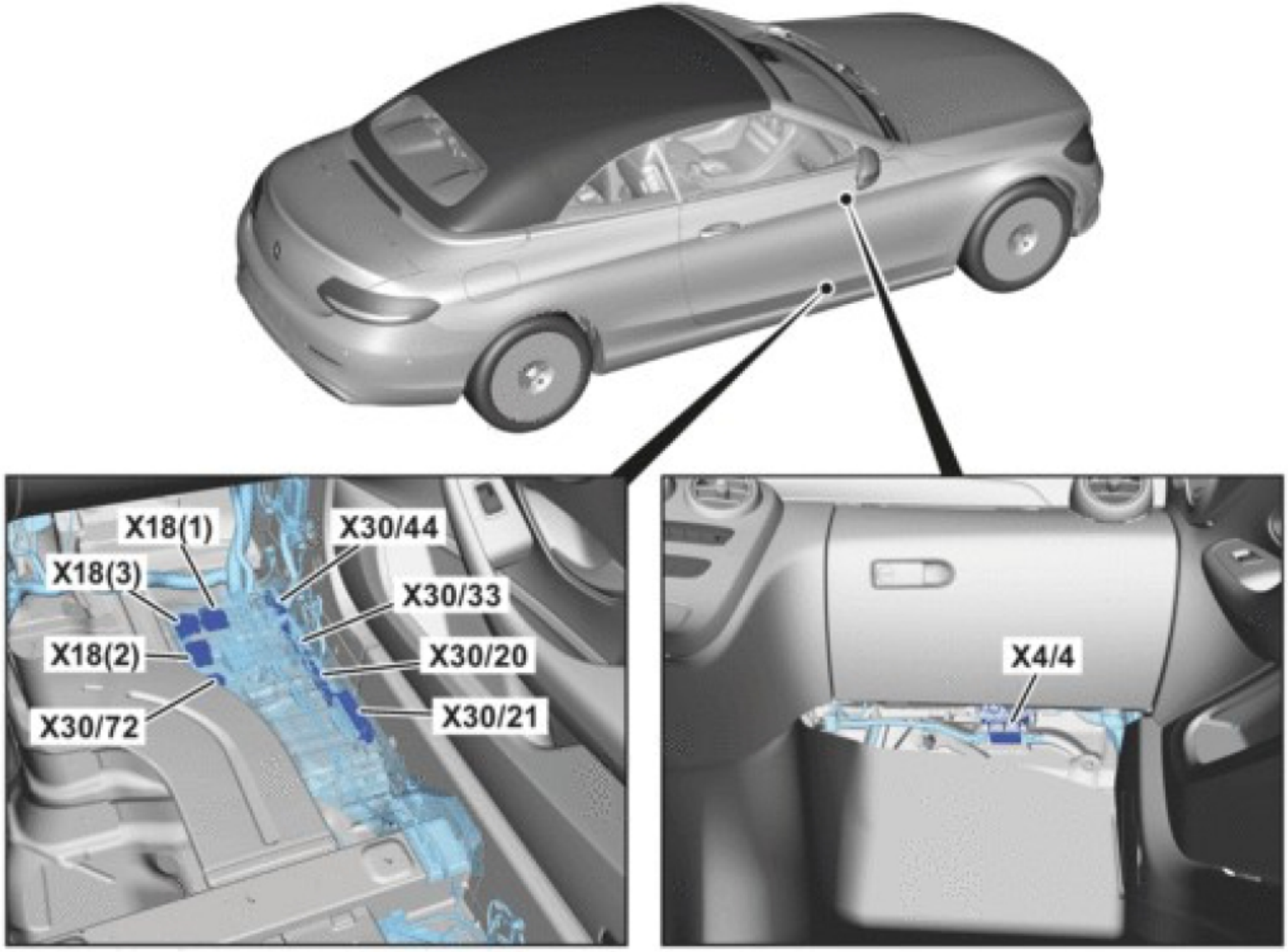
Appendix 8. W177 ground point W15/5 location



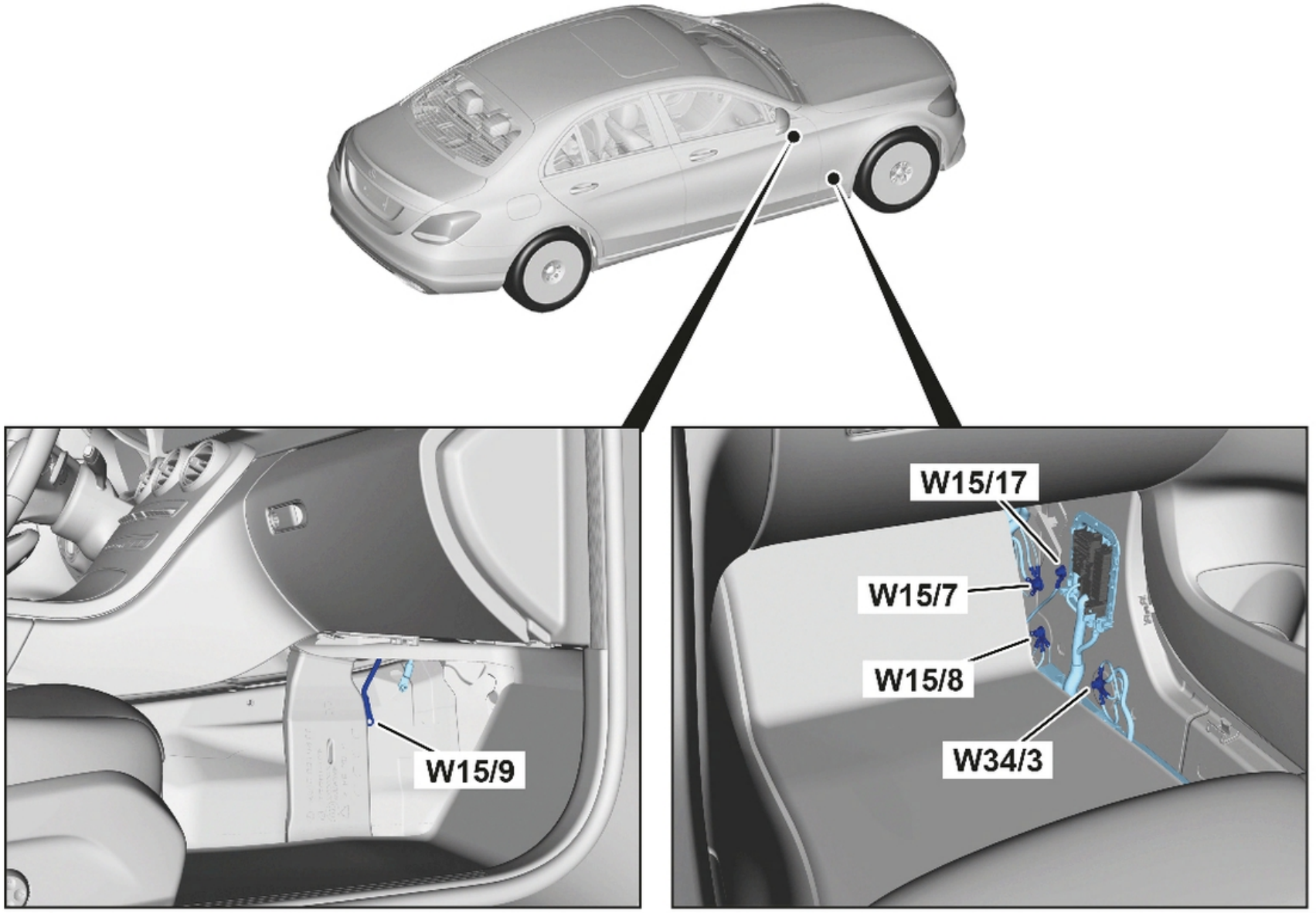
Appendix 9. W177 X11/4x1 (OBDII) location



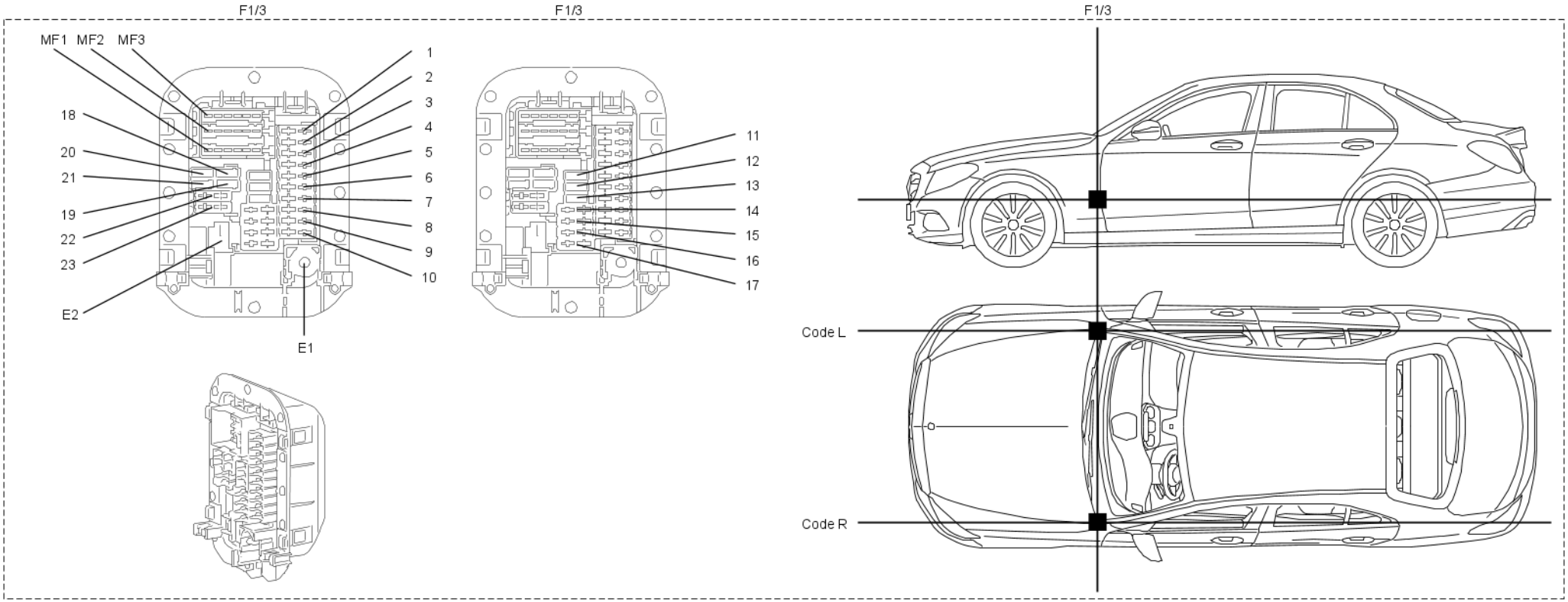
Appendix 10. W205FL X30/20 location



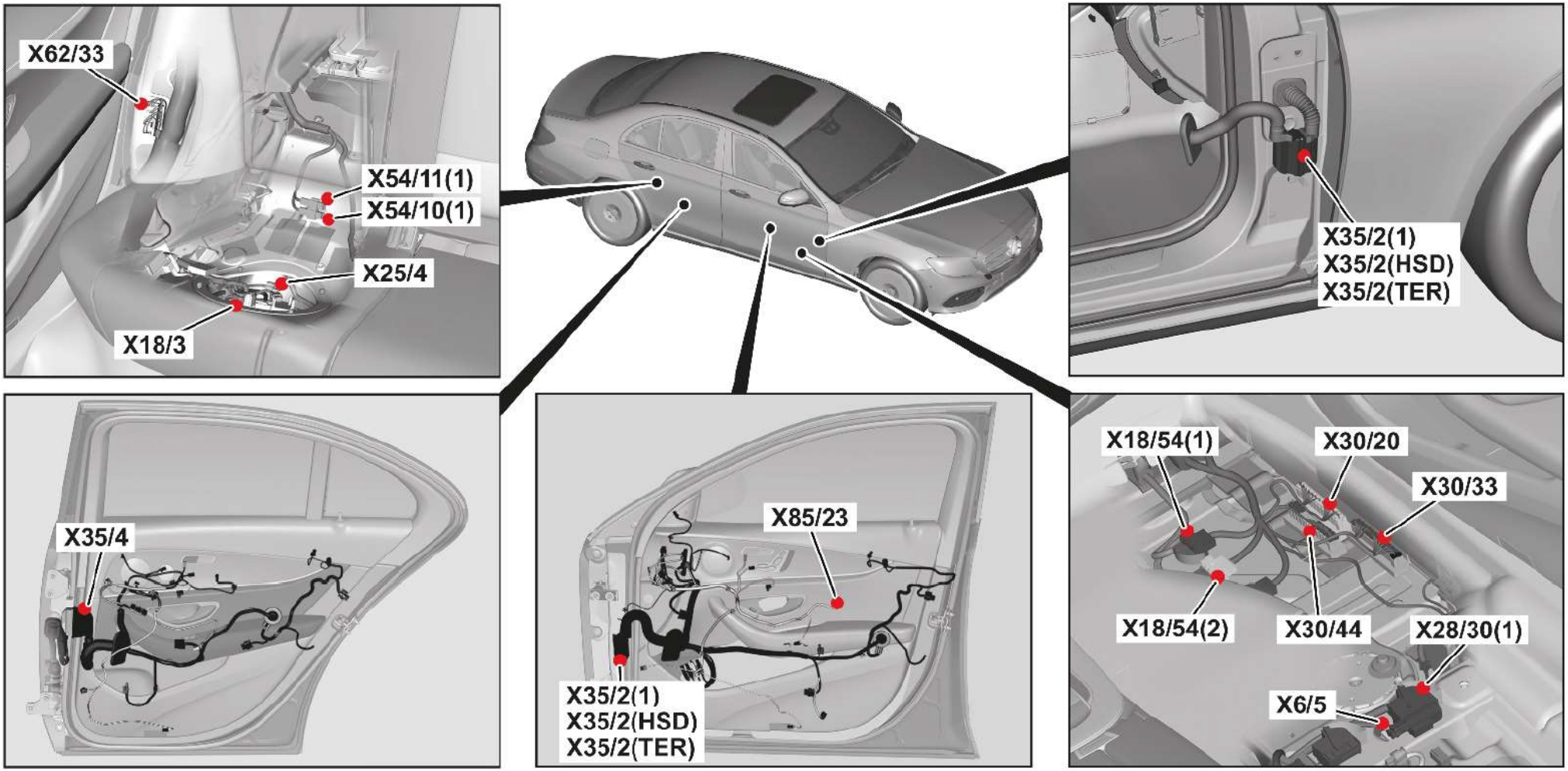
Appendix 11. W205FL ground point W15/7 location



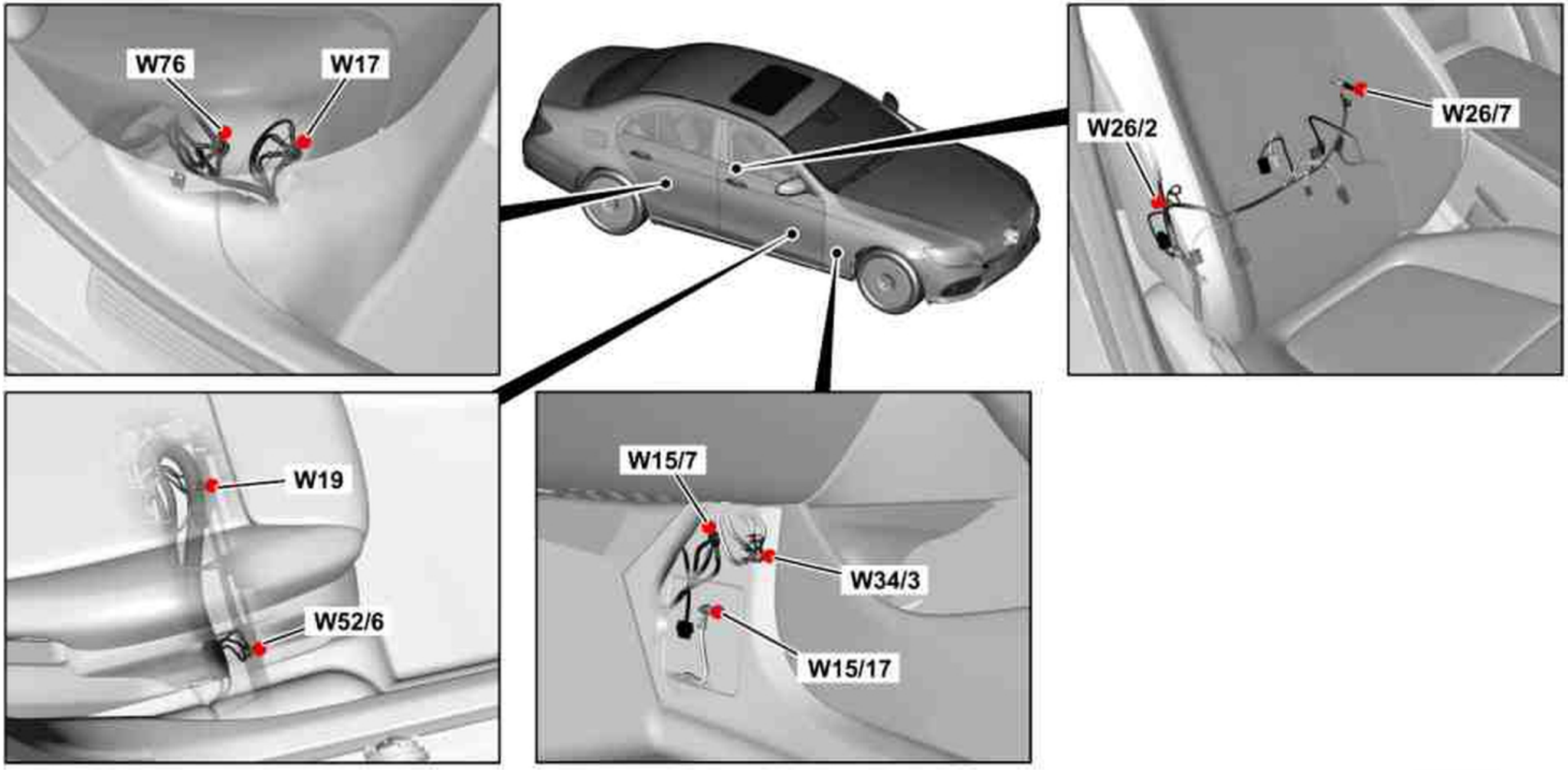
Appendix 12. W205FL F1/3 fuse and relay module location



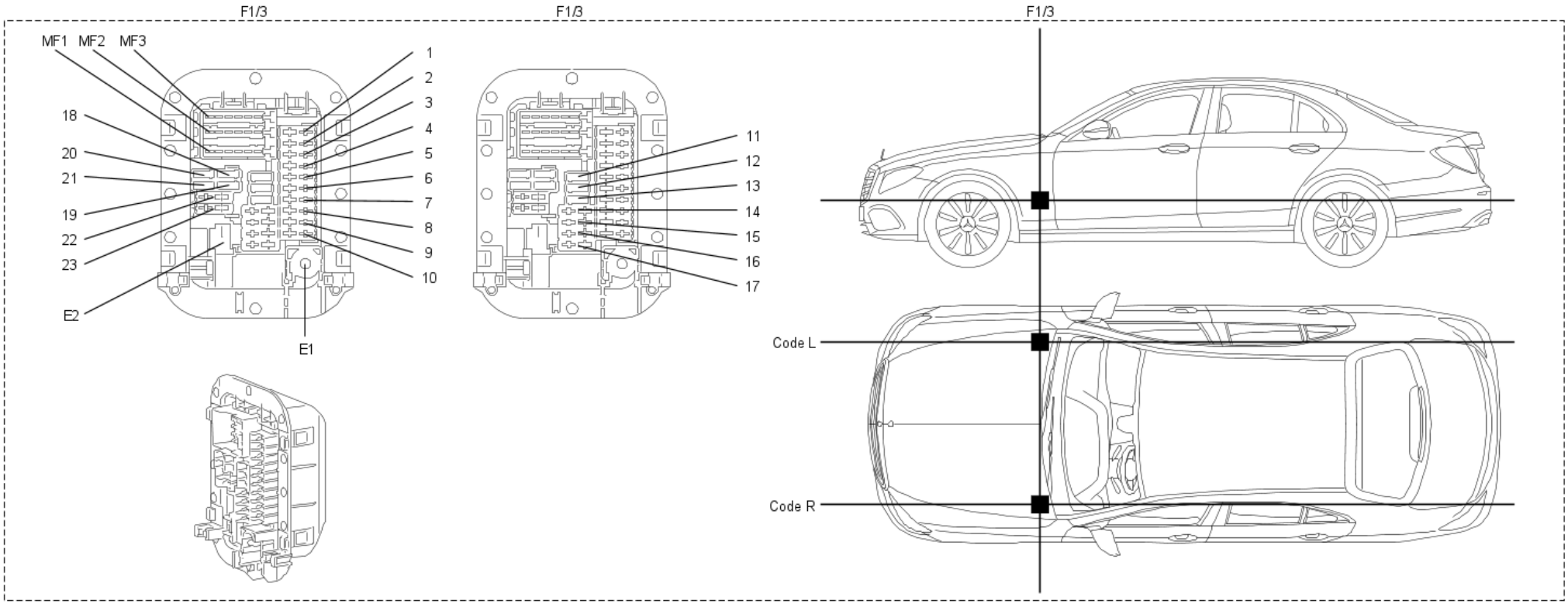
Appendix 13. W213 X30/20 location



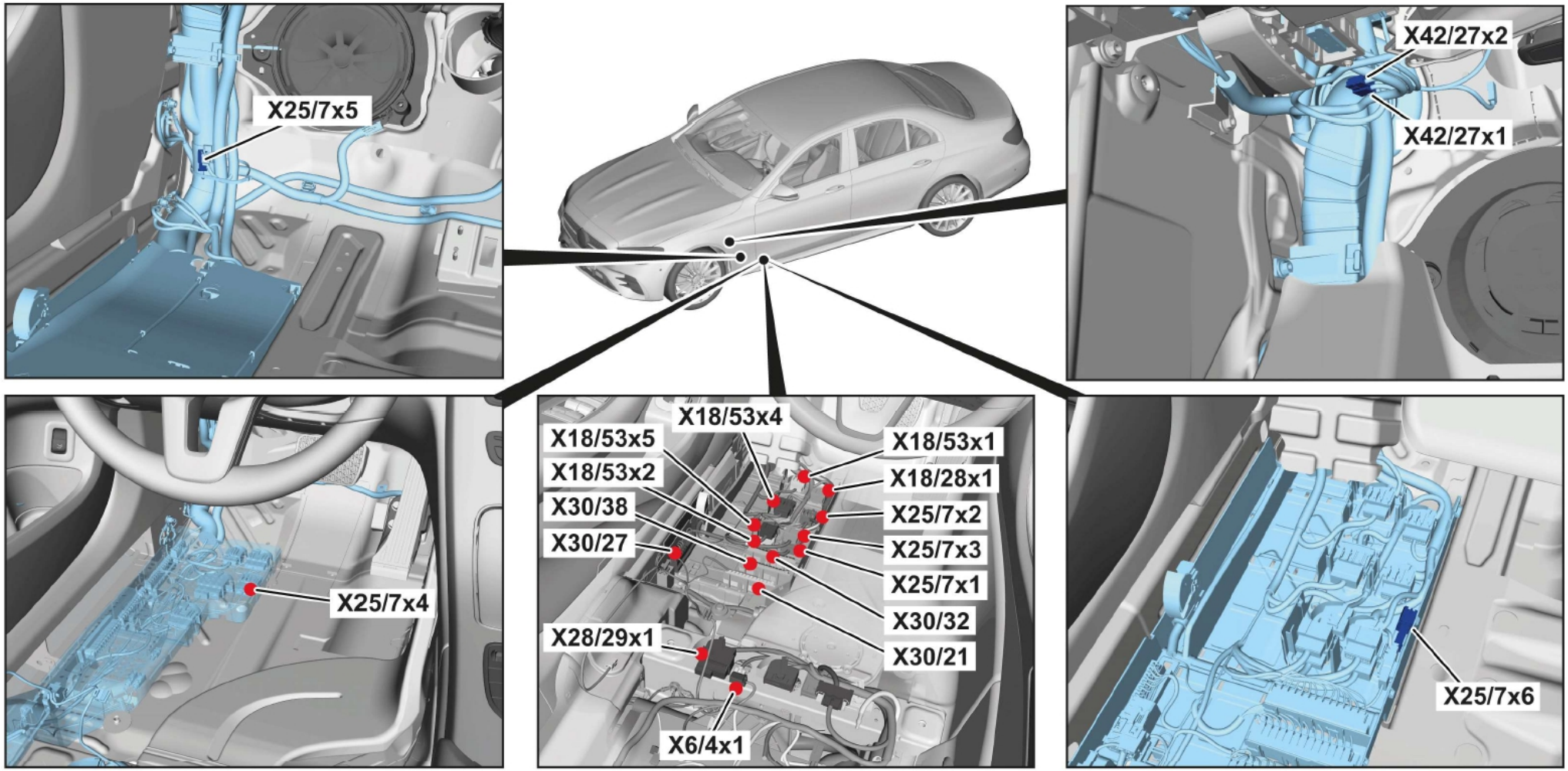
Appendix 14. W213 ground point W34/3 location



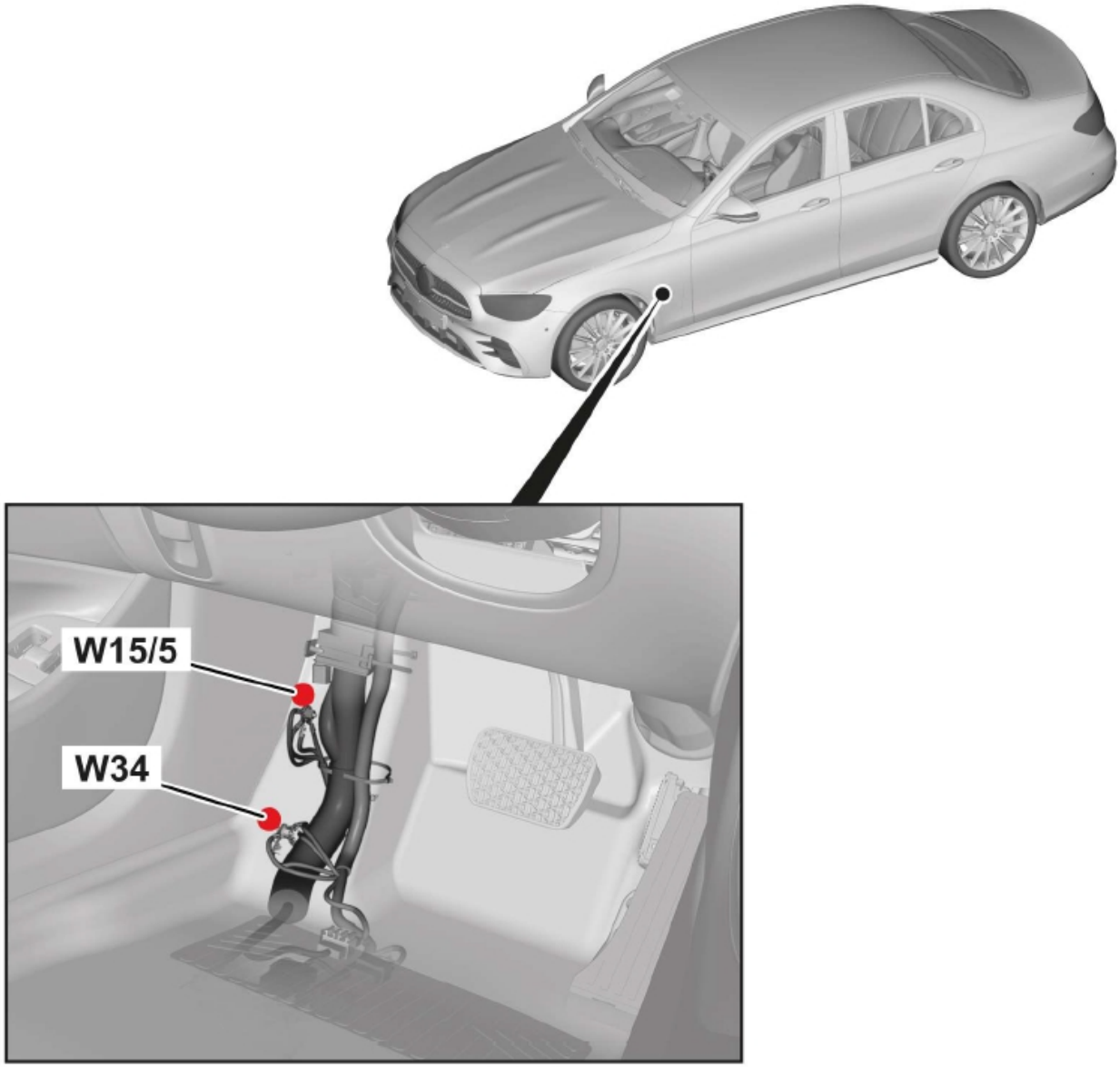
Appendix 15. W213 F1/3 fuse and relay module location



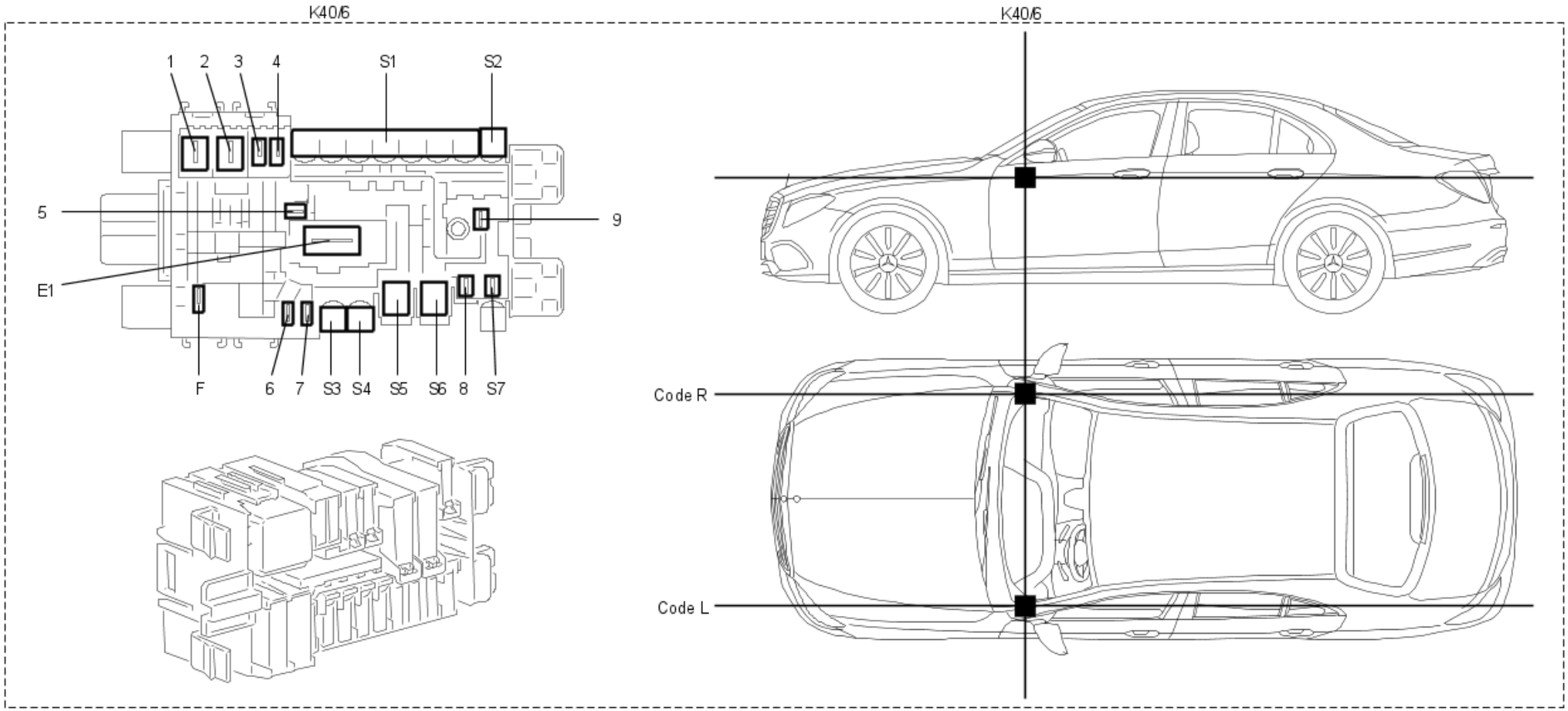
Appendix 16. W213FL X18/53x1 location



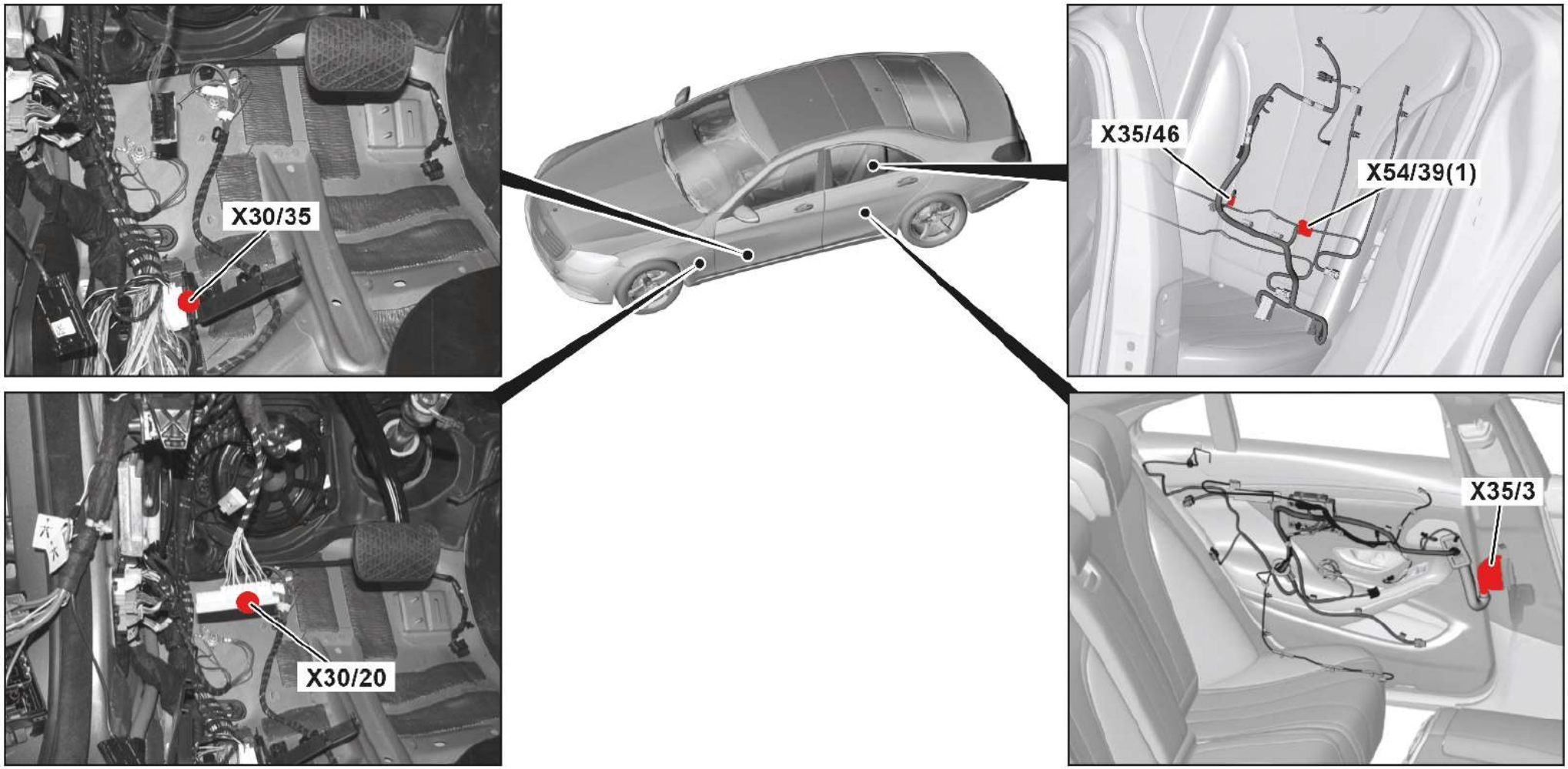
Appendix 17. W213FL ground point W34 location



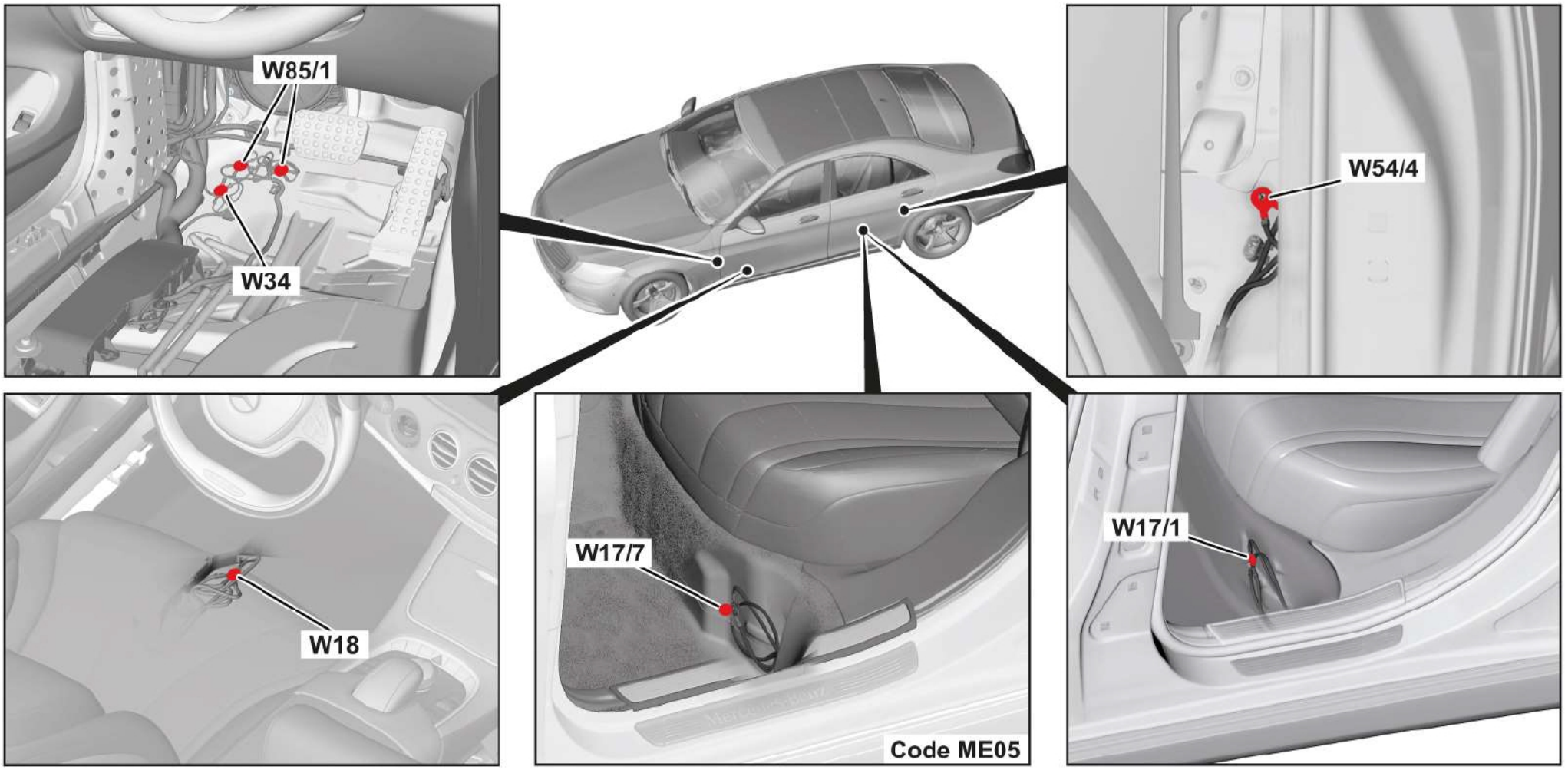
Appendix 18. W213FL K40/6 fuse and relay module location



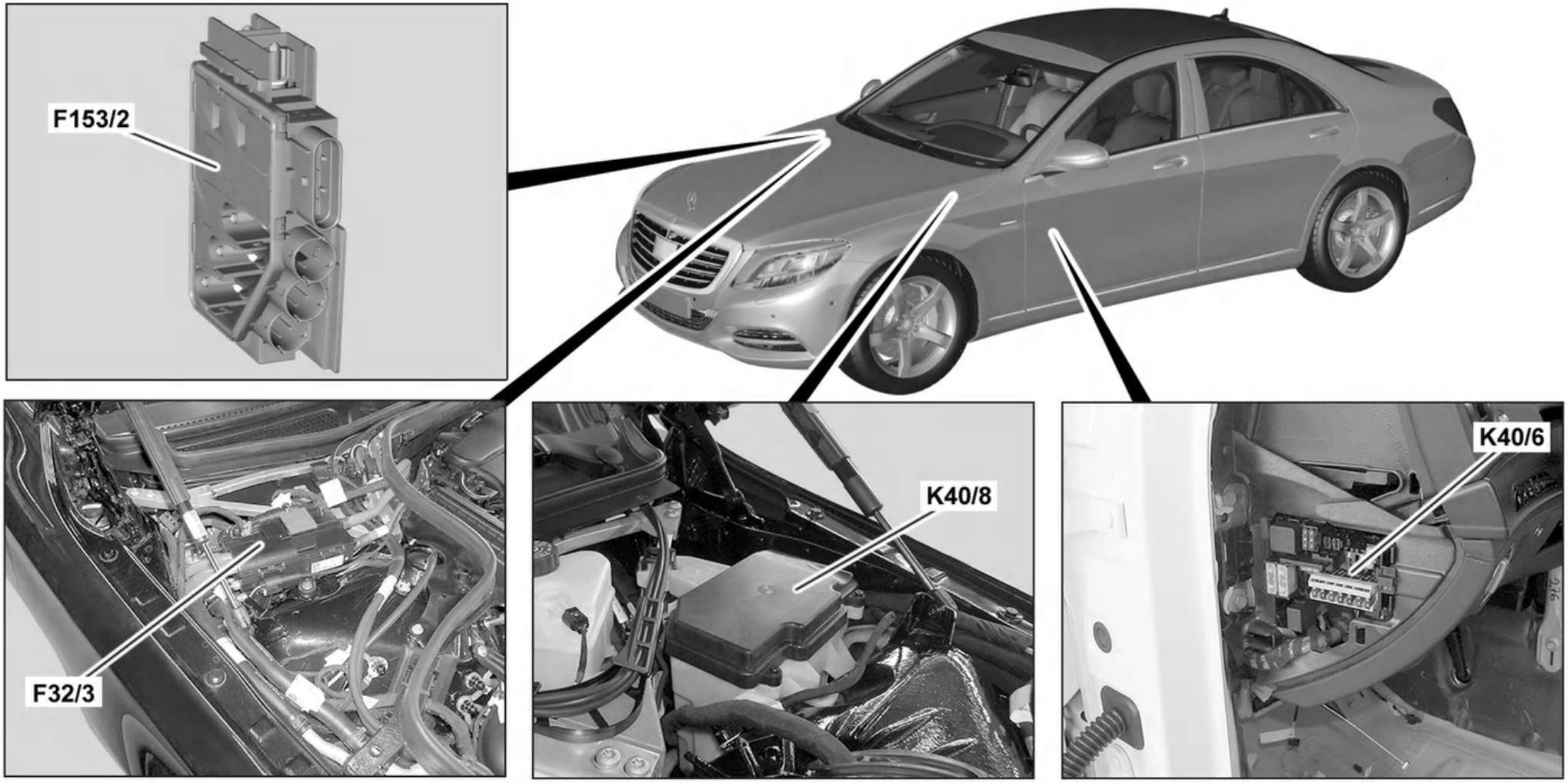
Appendix 19. W217FL X30/20 location



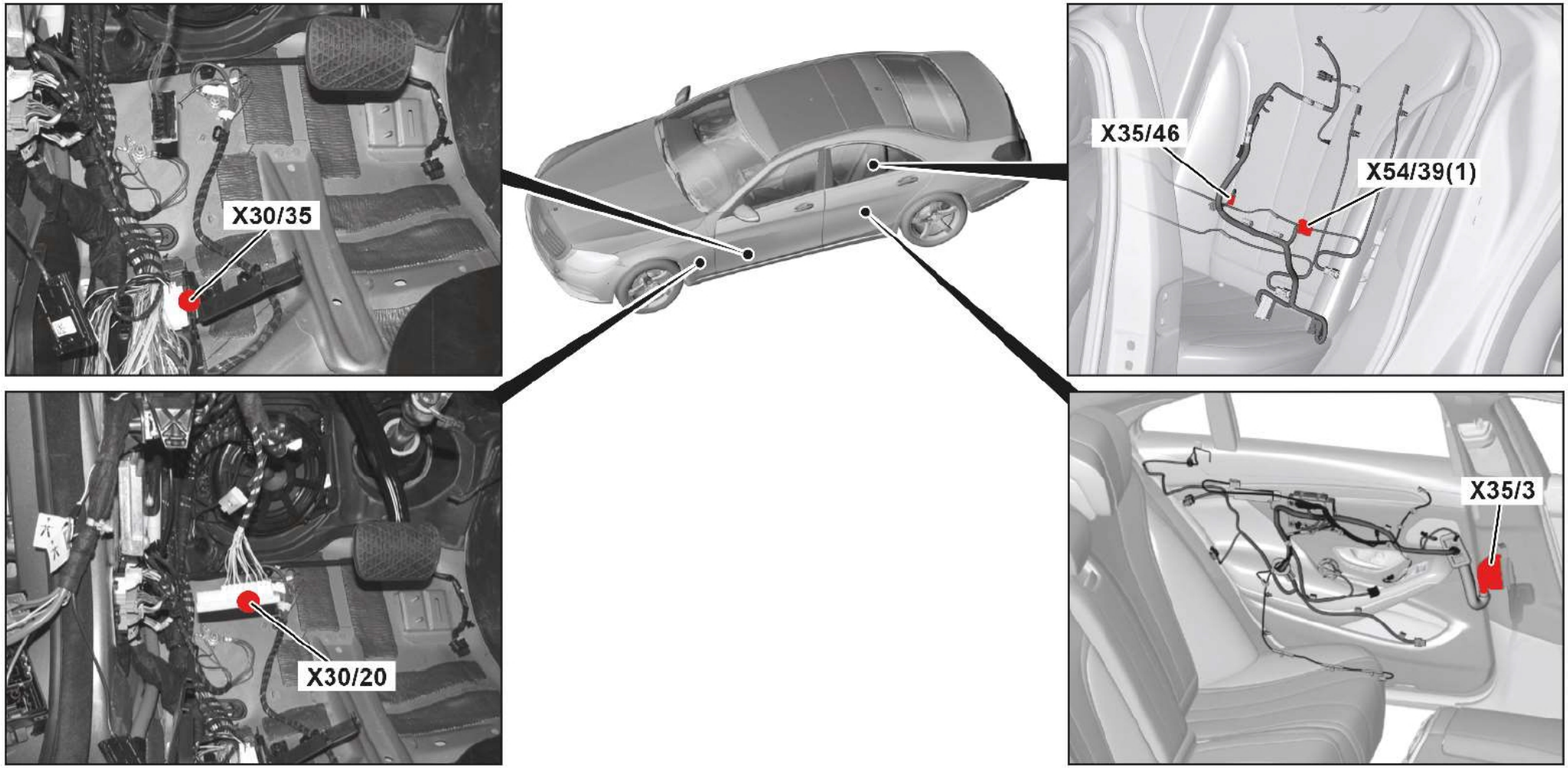
Appendix 20. W217FL ground point W34 location



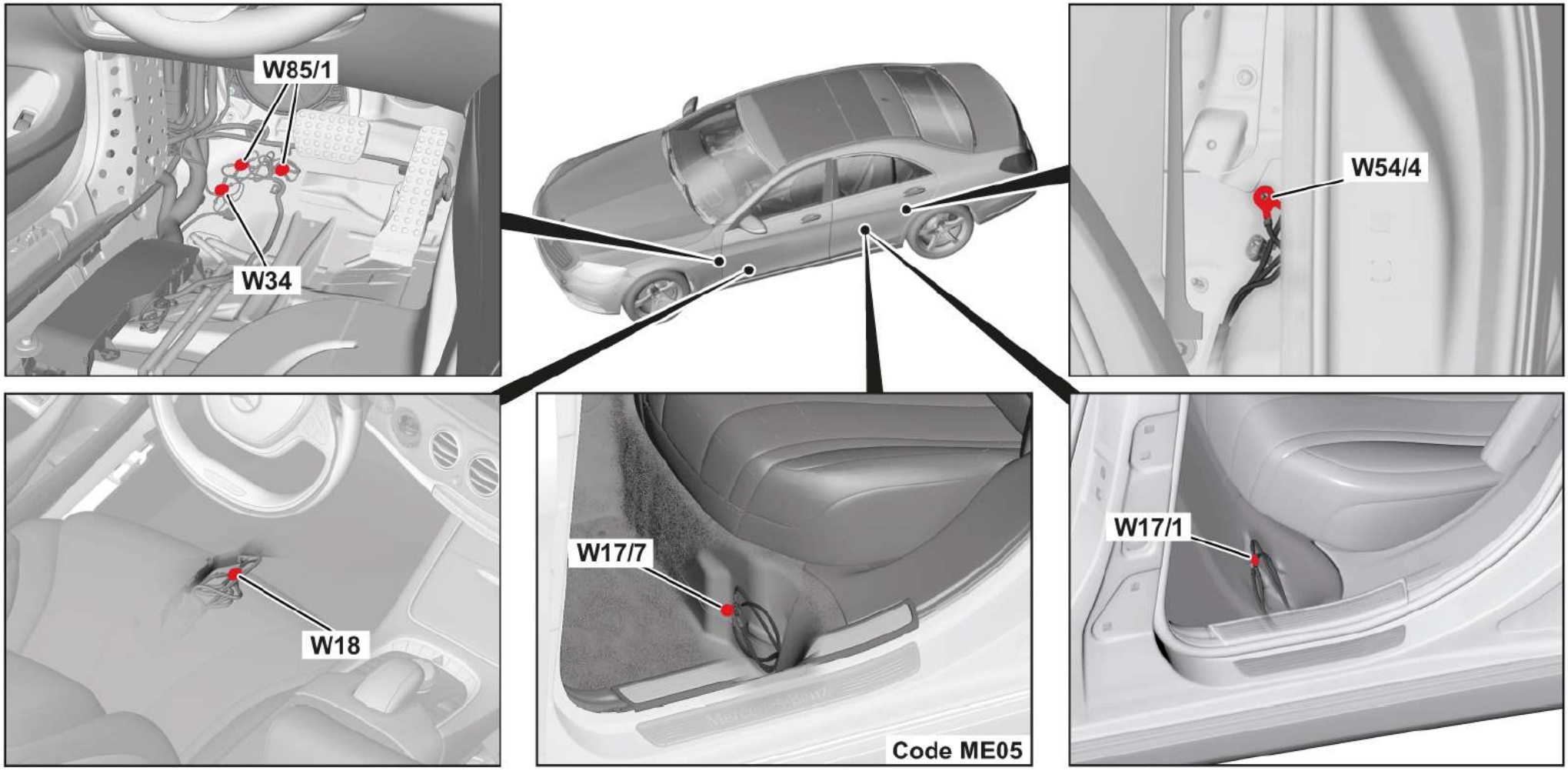
Appendix 21. W217FL K40/6 fuse and relay module location



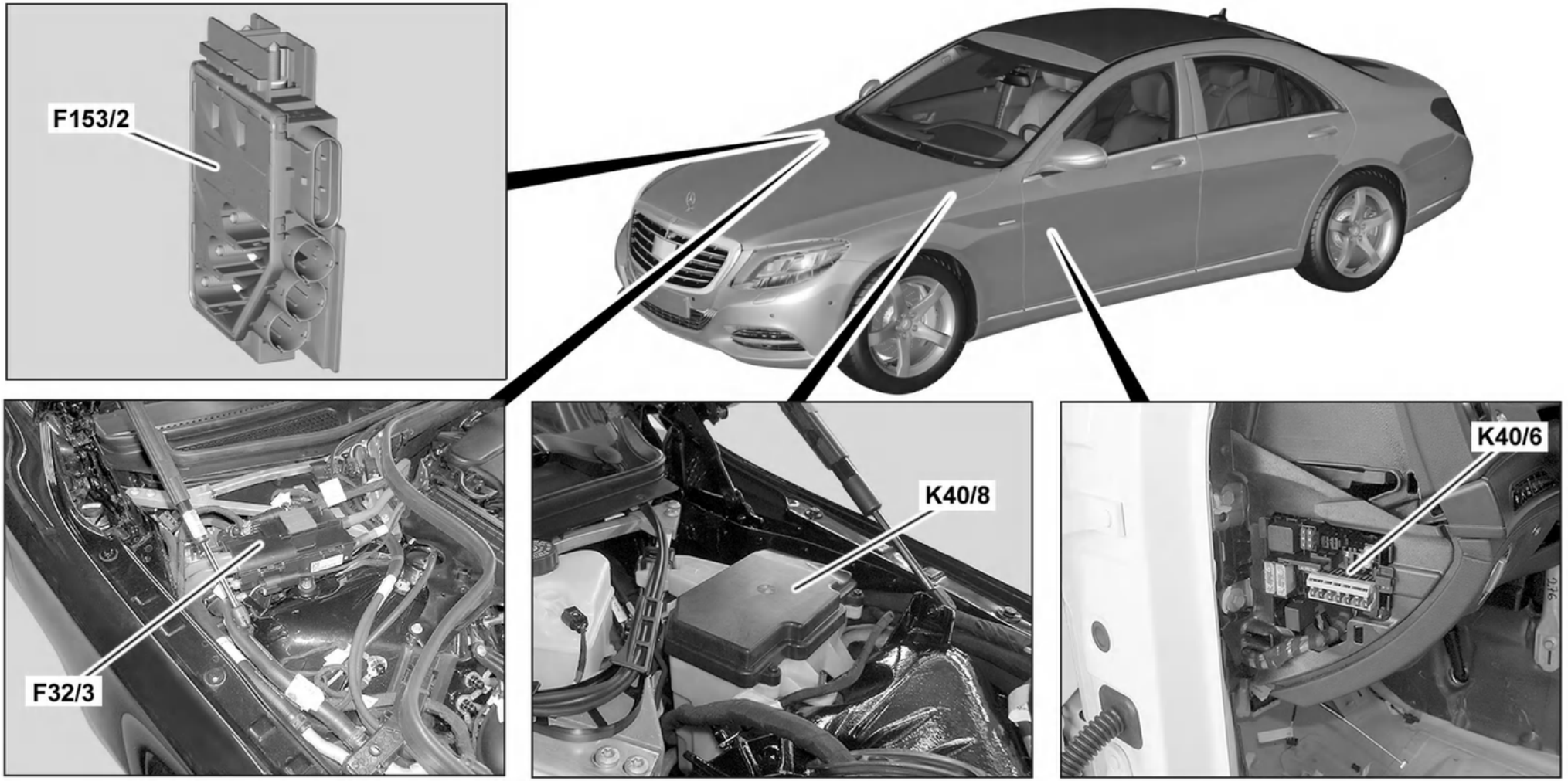
Appendix 22. W222FL X30/20 location



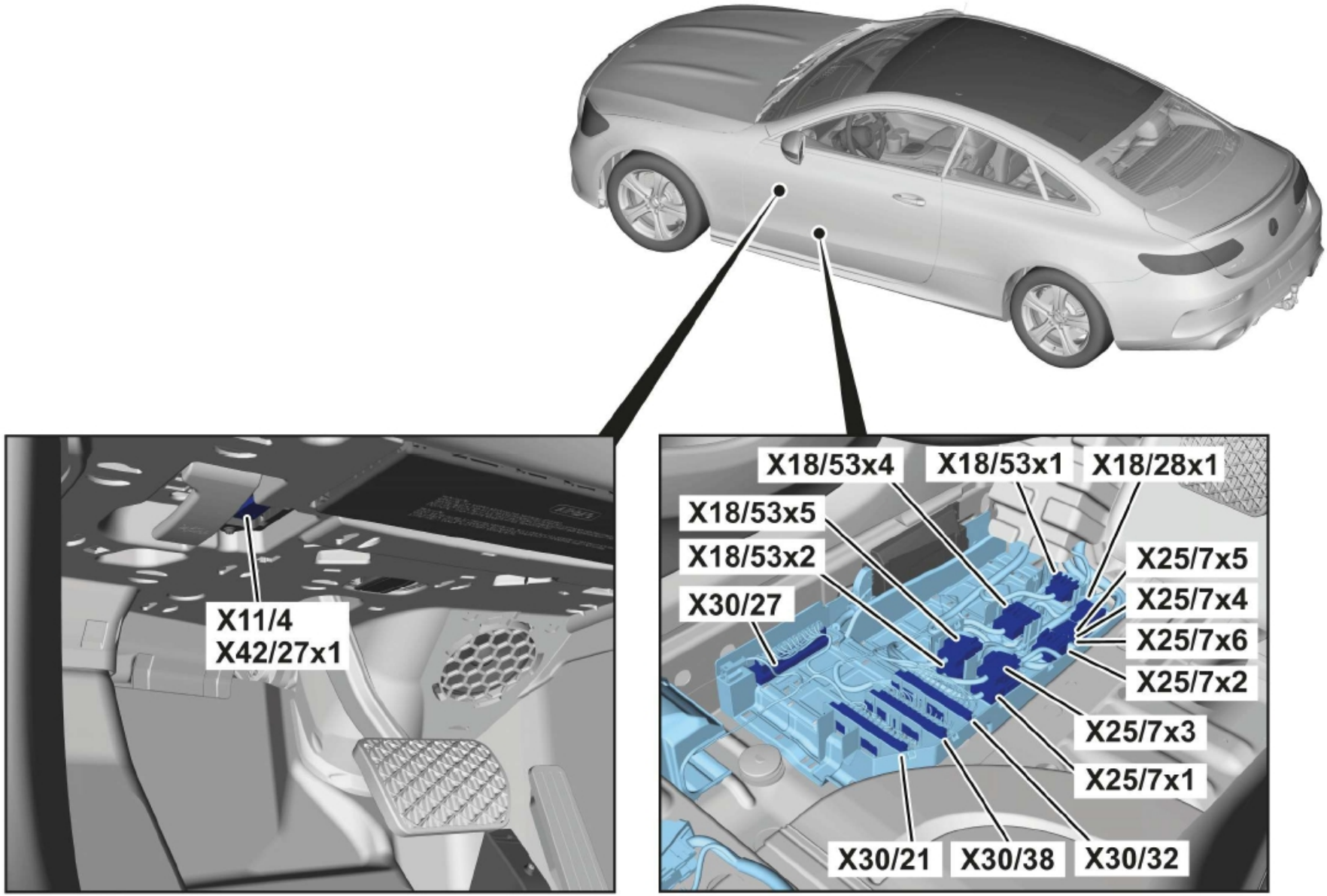
Appendix 23. W222FL ground point W34 location



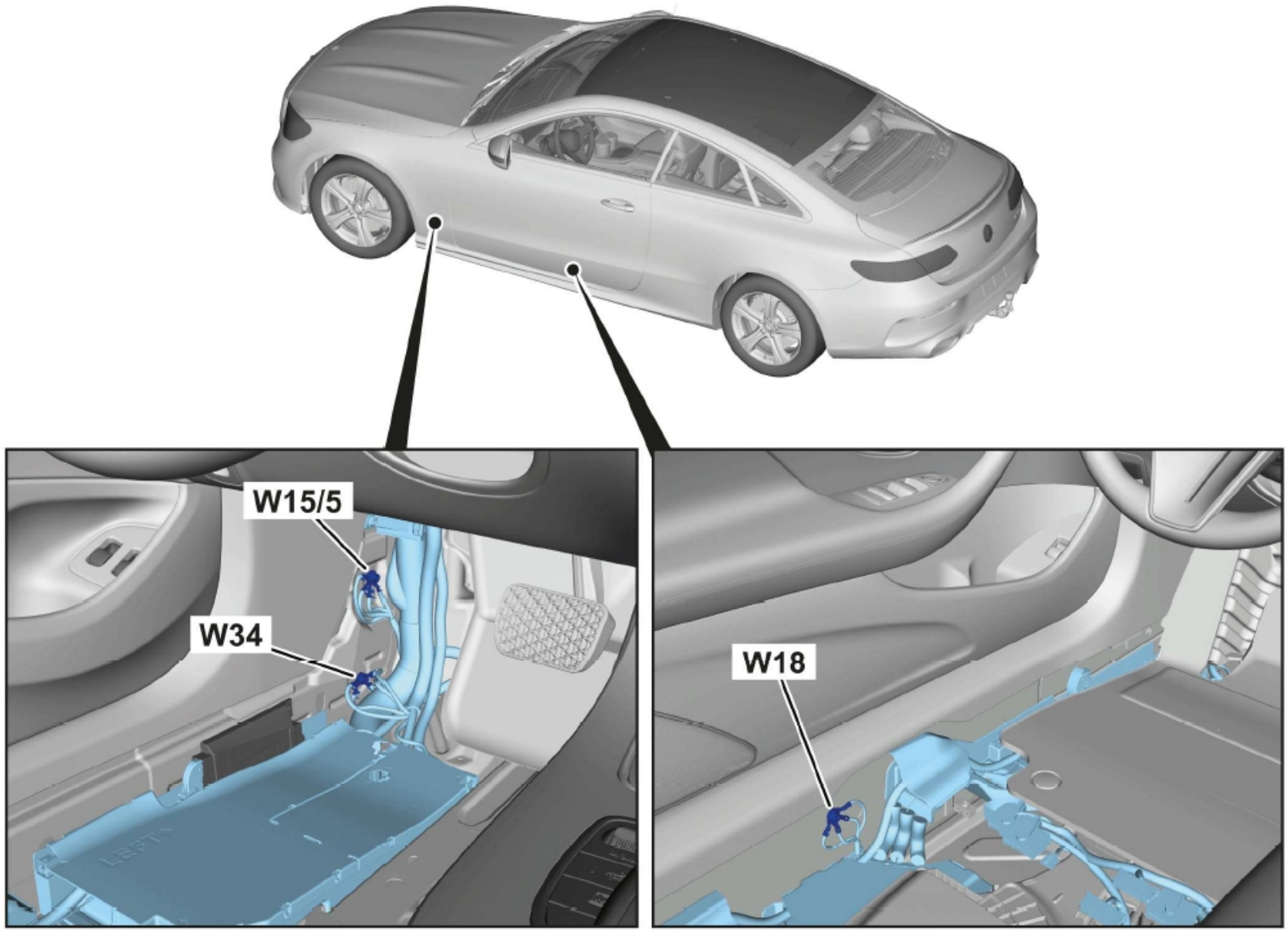
Appendix 24. W222FL K40/6 fuse and relay module location



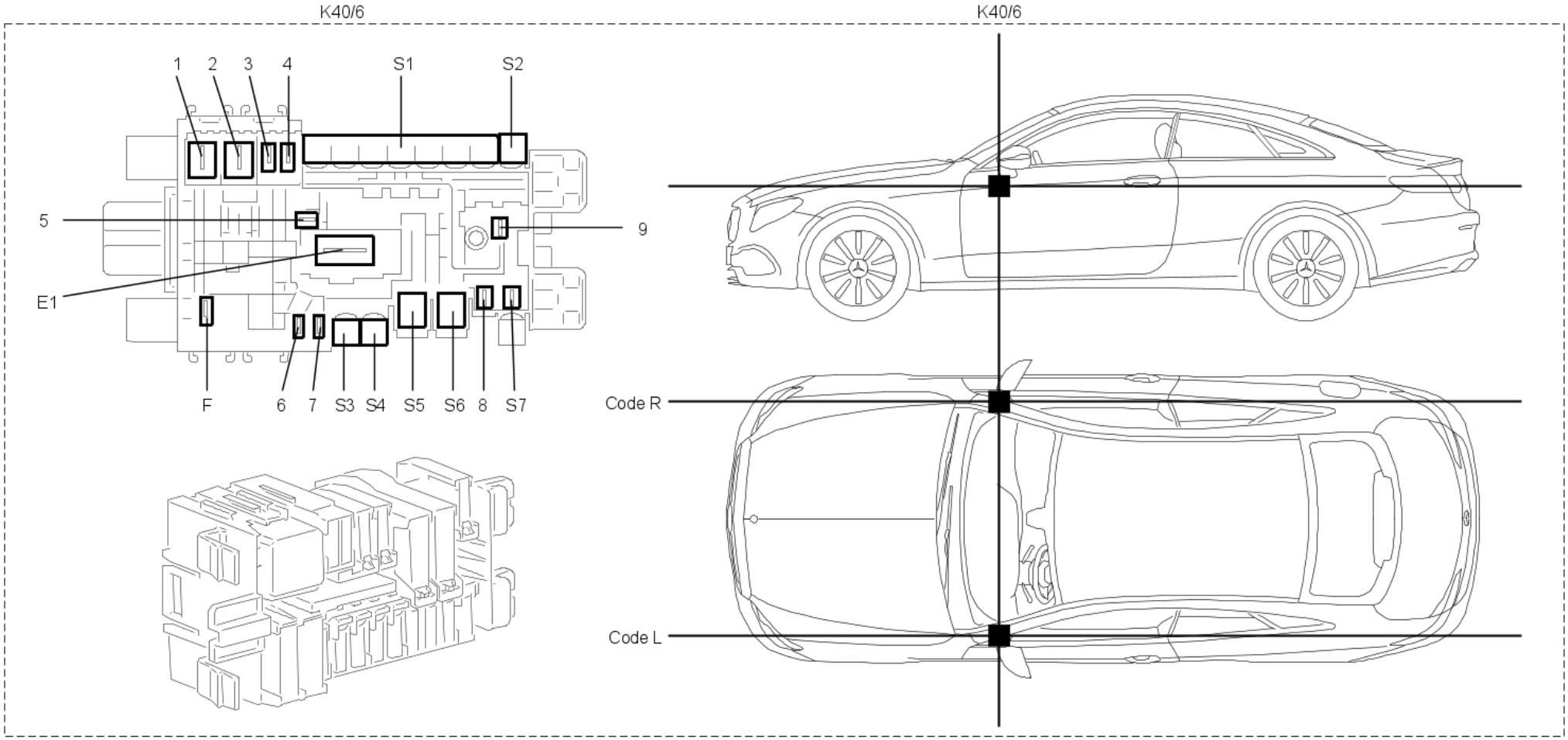
Appendix 25. W238 X18/53x1 location



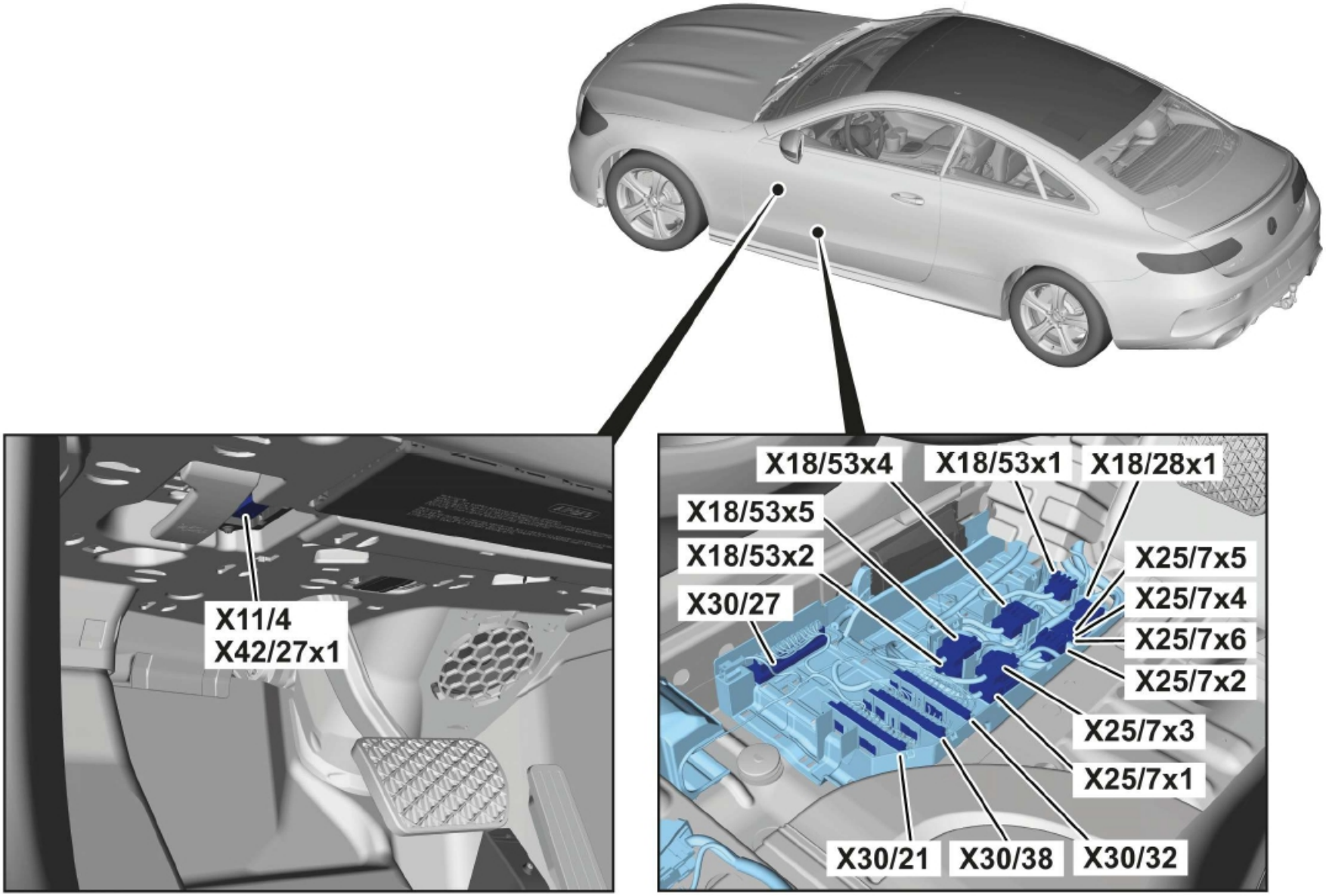
Appendix 26. W238 ground point W34 location



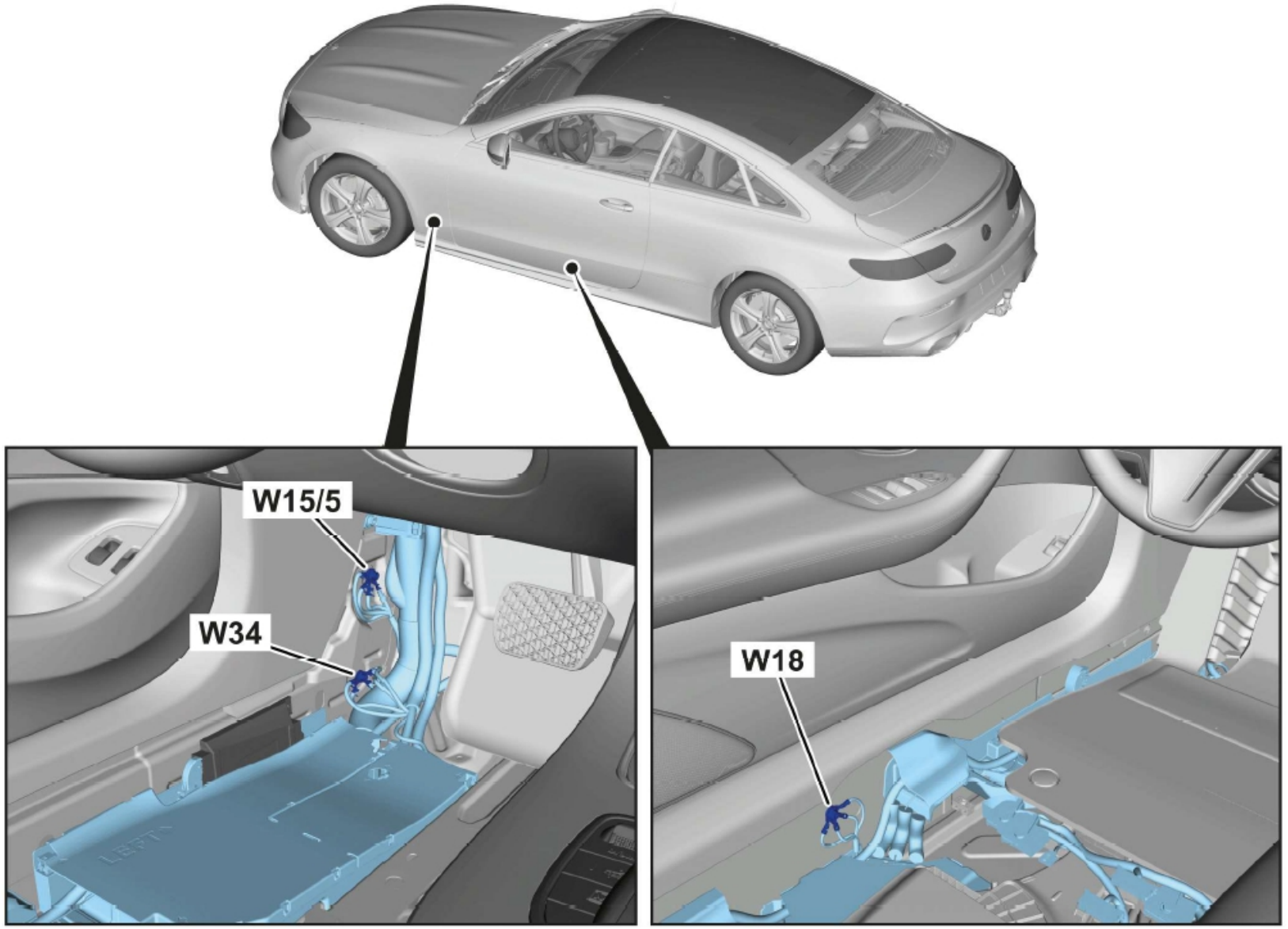
Appendix 27. W238 K40/6 fuse and relay module location



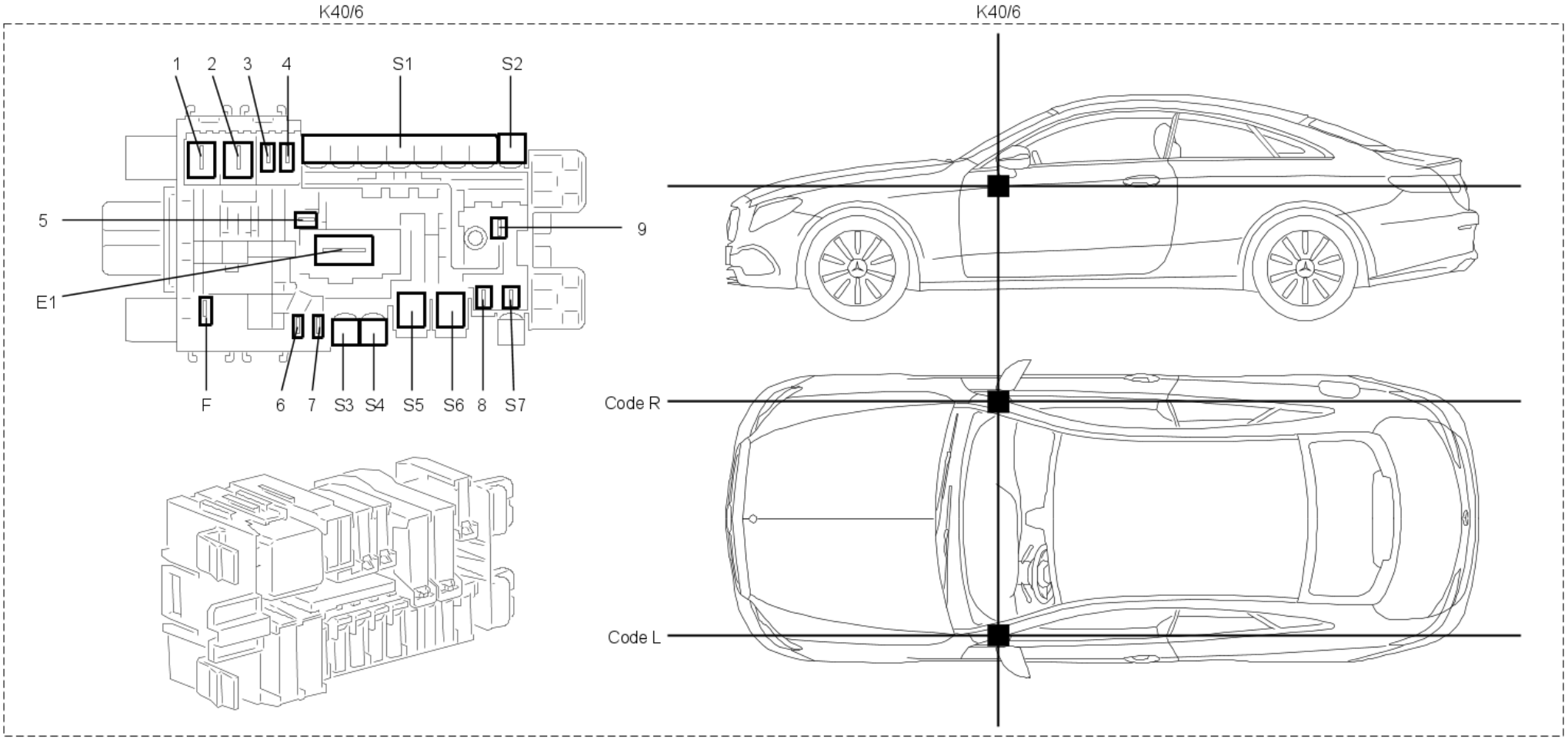
Appendix 28. W238FL X18/53x1 location



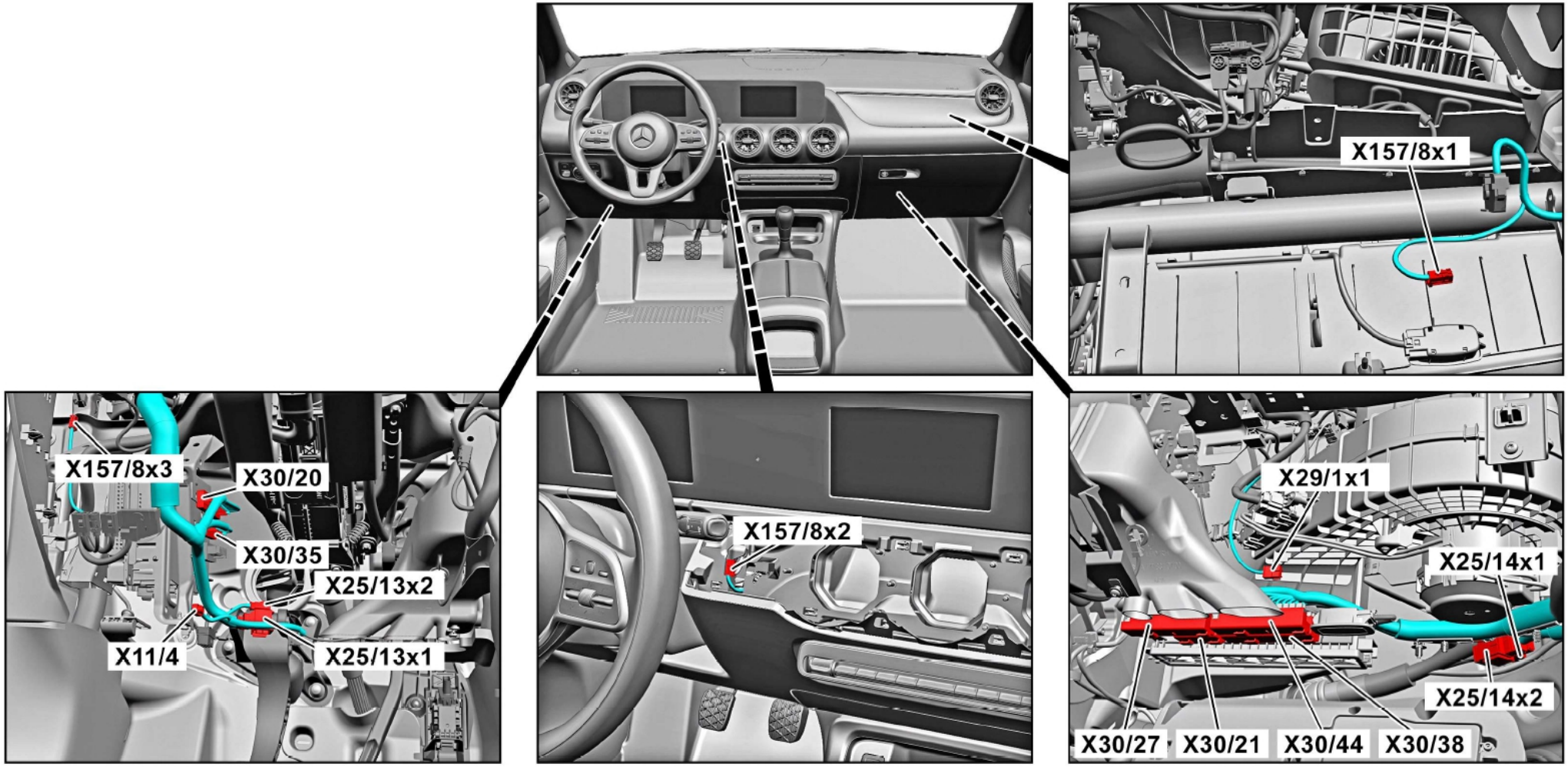
Appendix 29. W238FL ground point W34 location



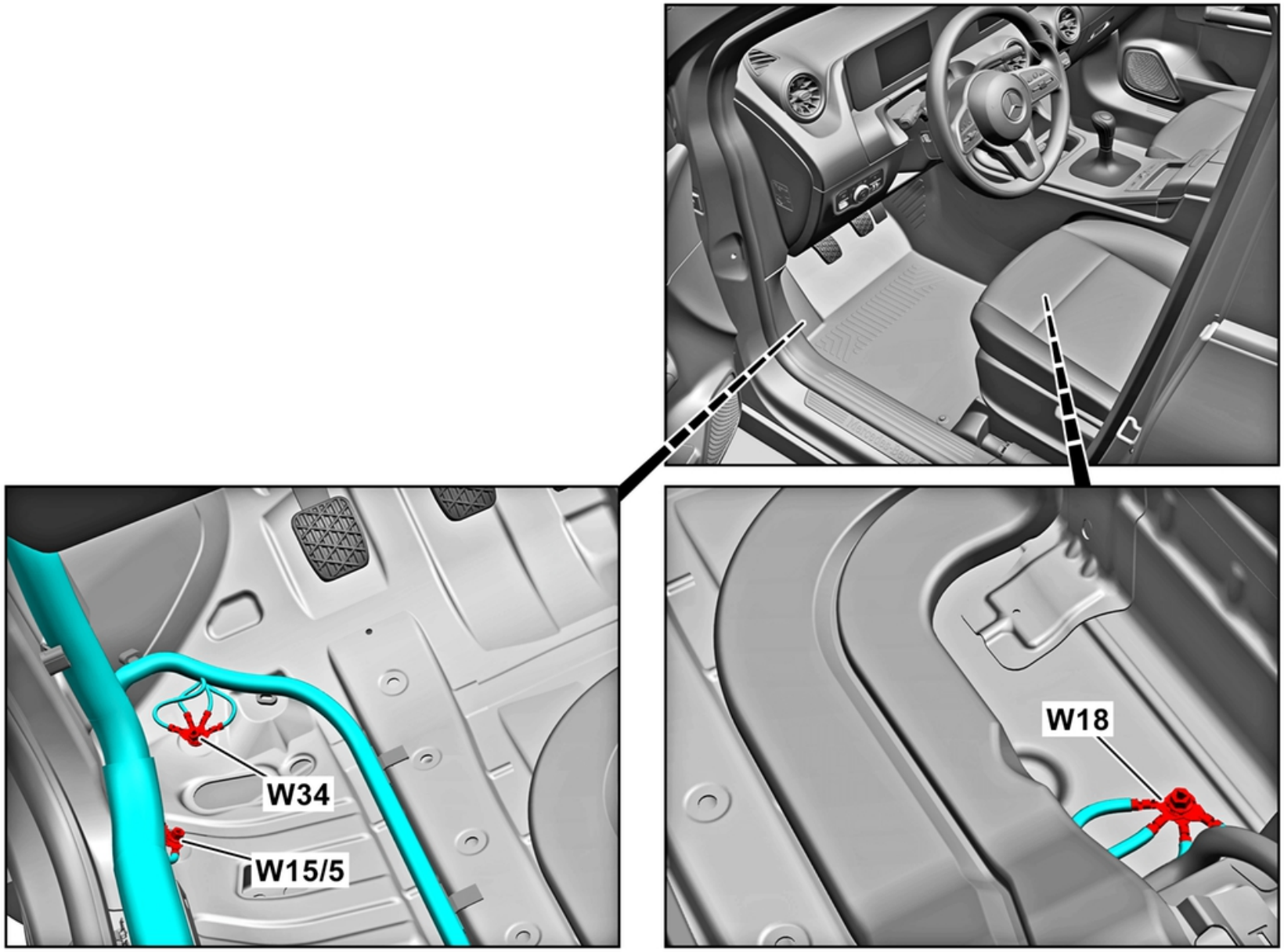
Appendix 30. W238FL K40/6 fuse and relay module location



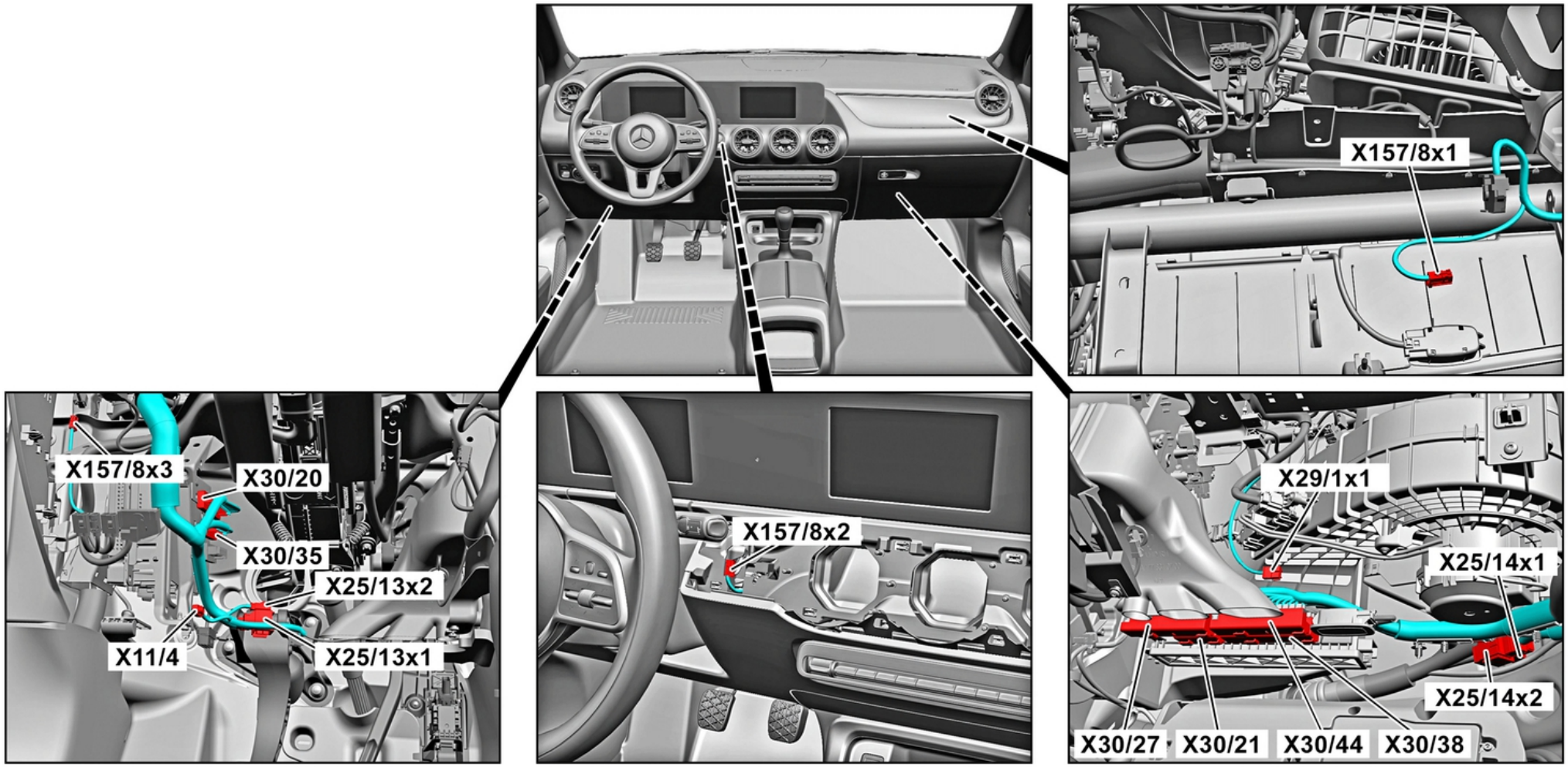
Appendix 31. W247 X30/20 location



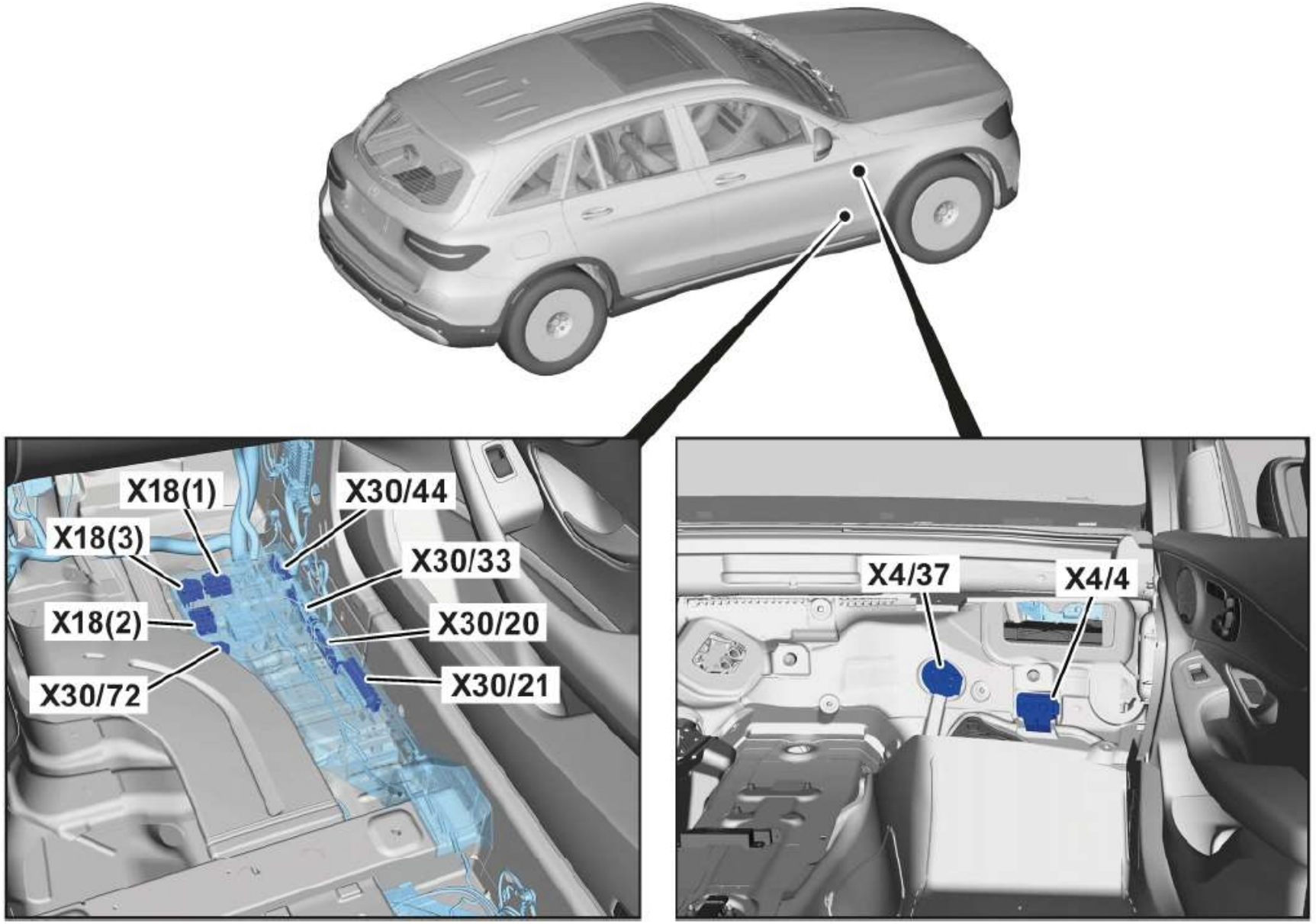
Appendix 32. W247 ground point W34 location



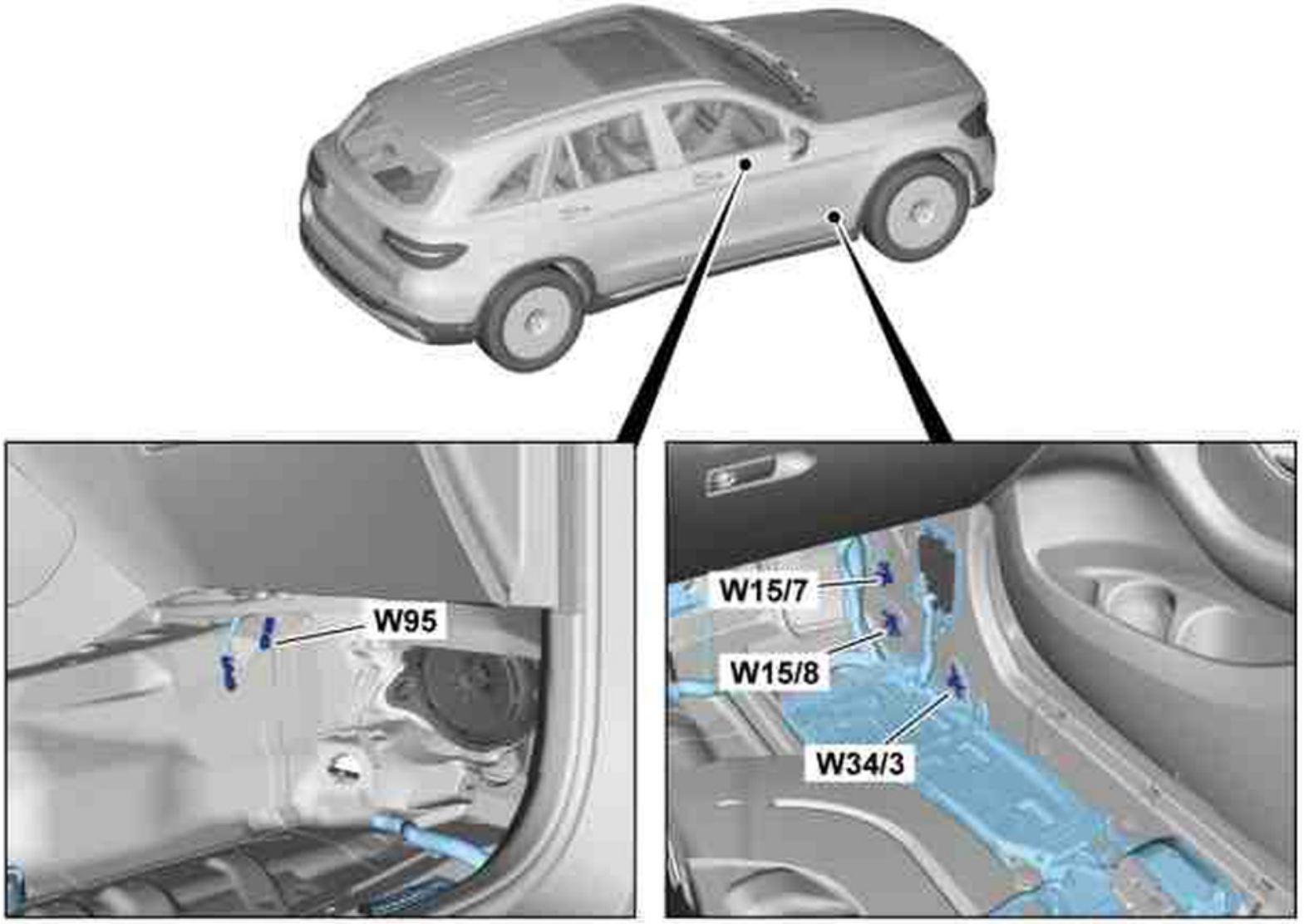
Appendix 33. W247 X11/4 (OBDII) location



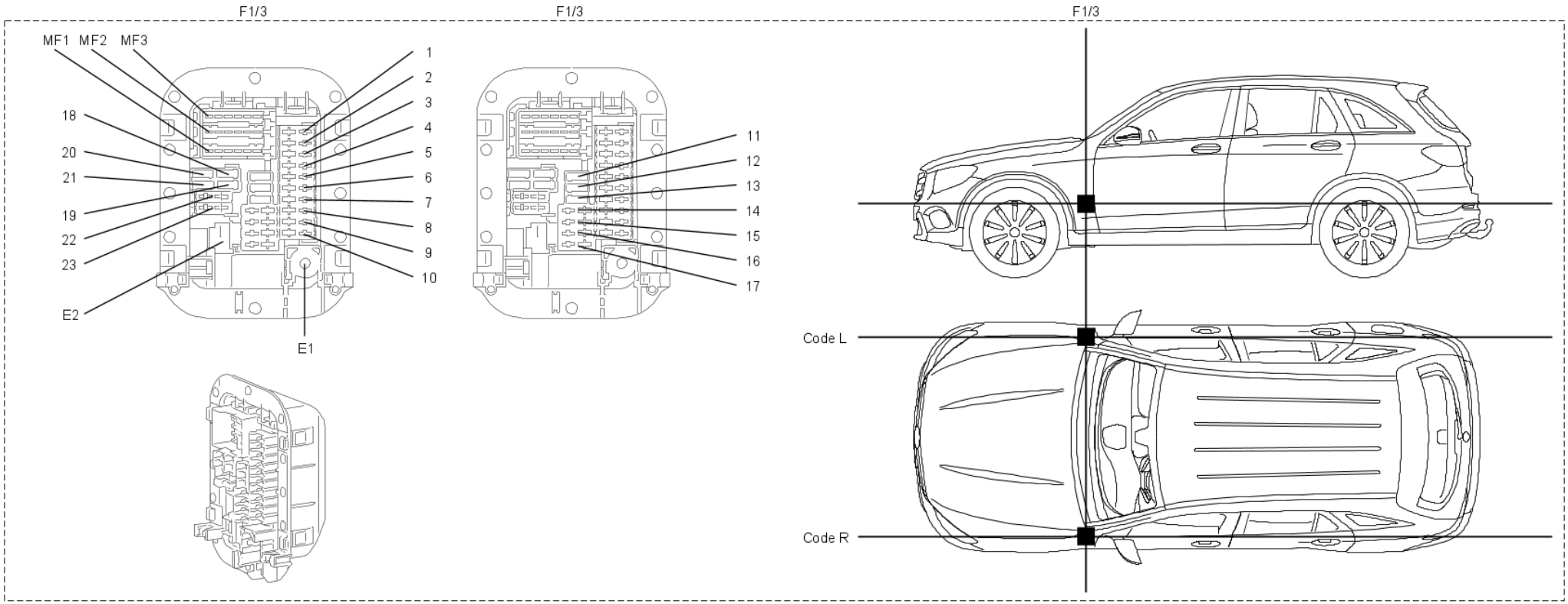
Appendix 34. W253FL X30/20 location



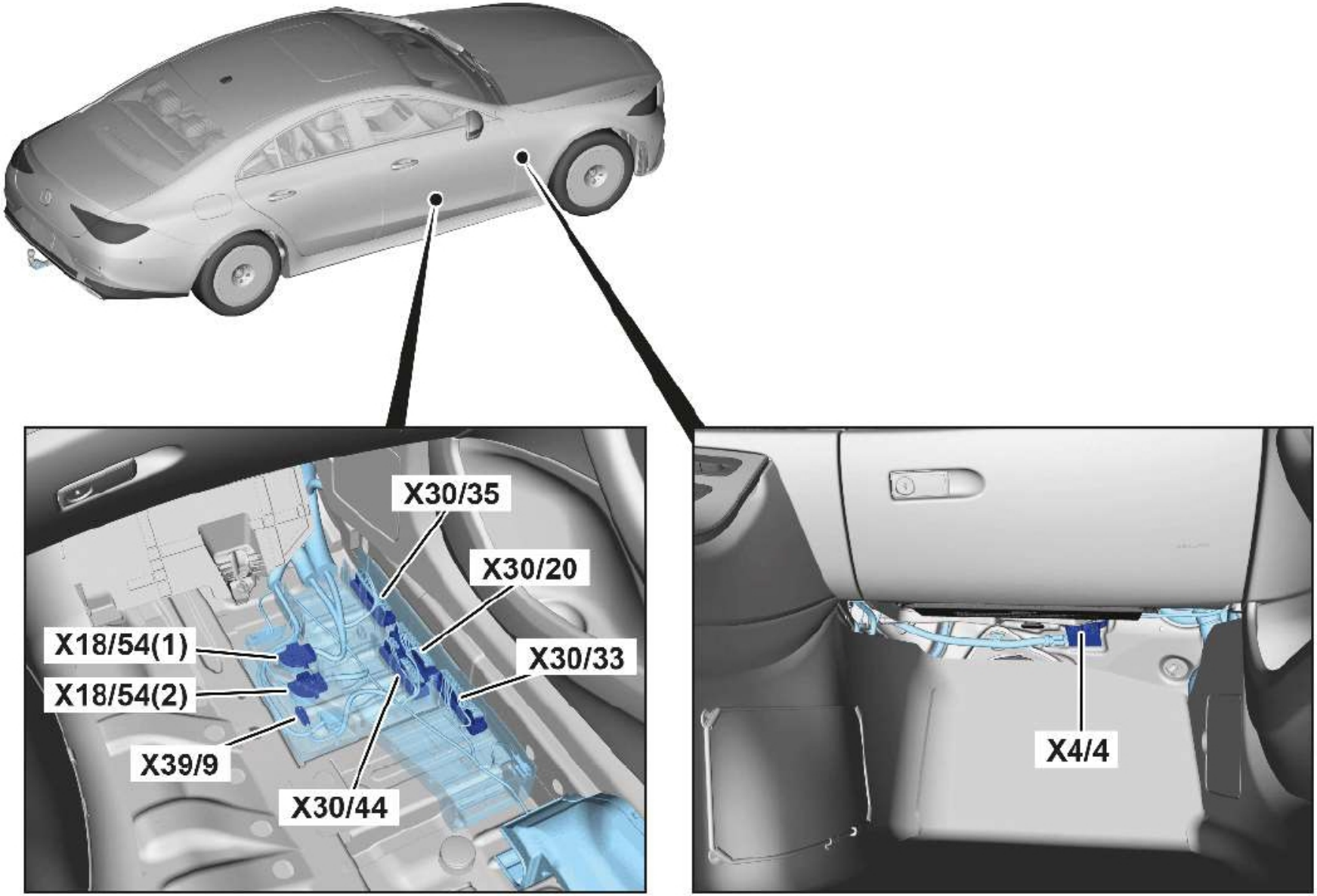
Appendix 35. W253FL ground point W34/3 location



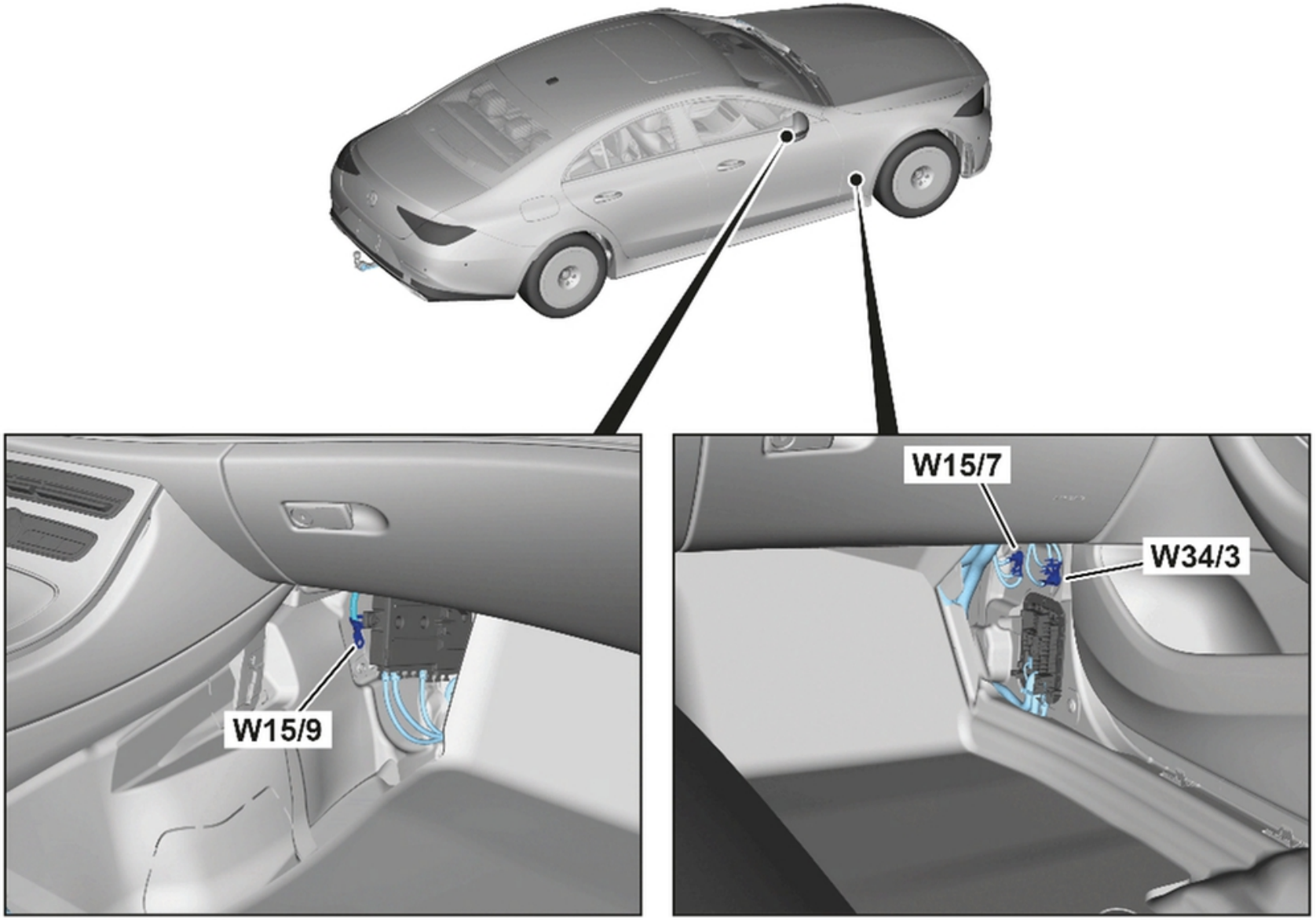
Appendix 36. W253FL F1/3 fuse and relay module location



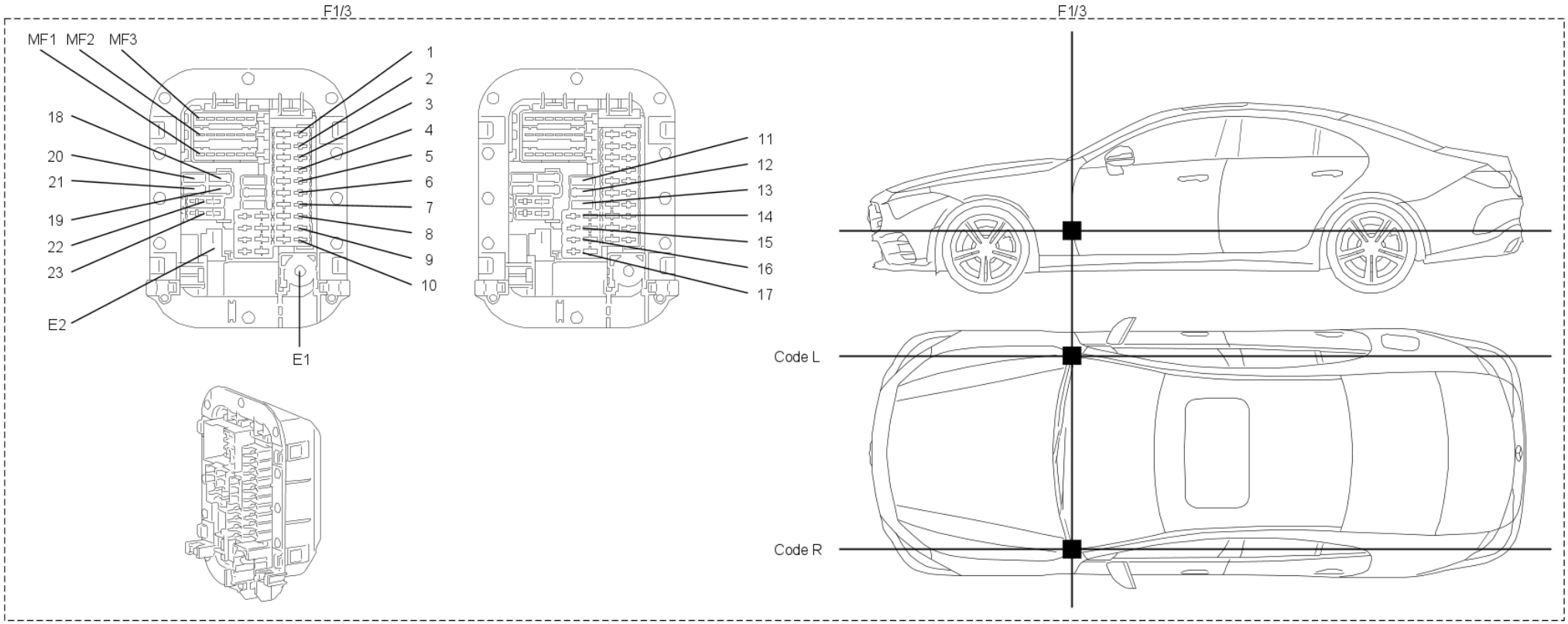
Appendix 37. W257 X30/20 location



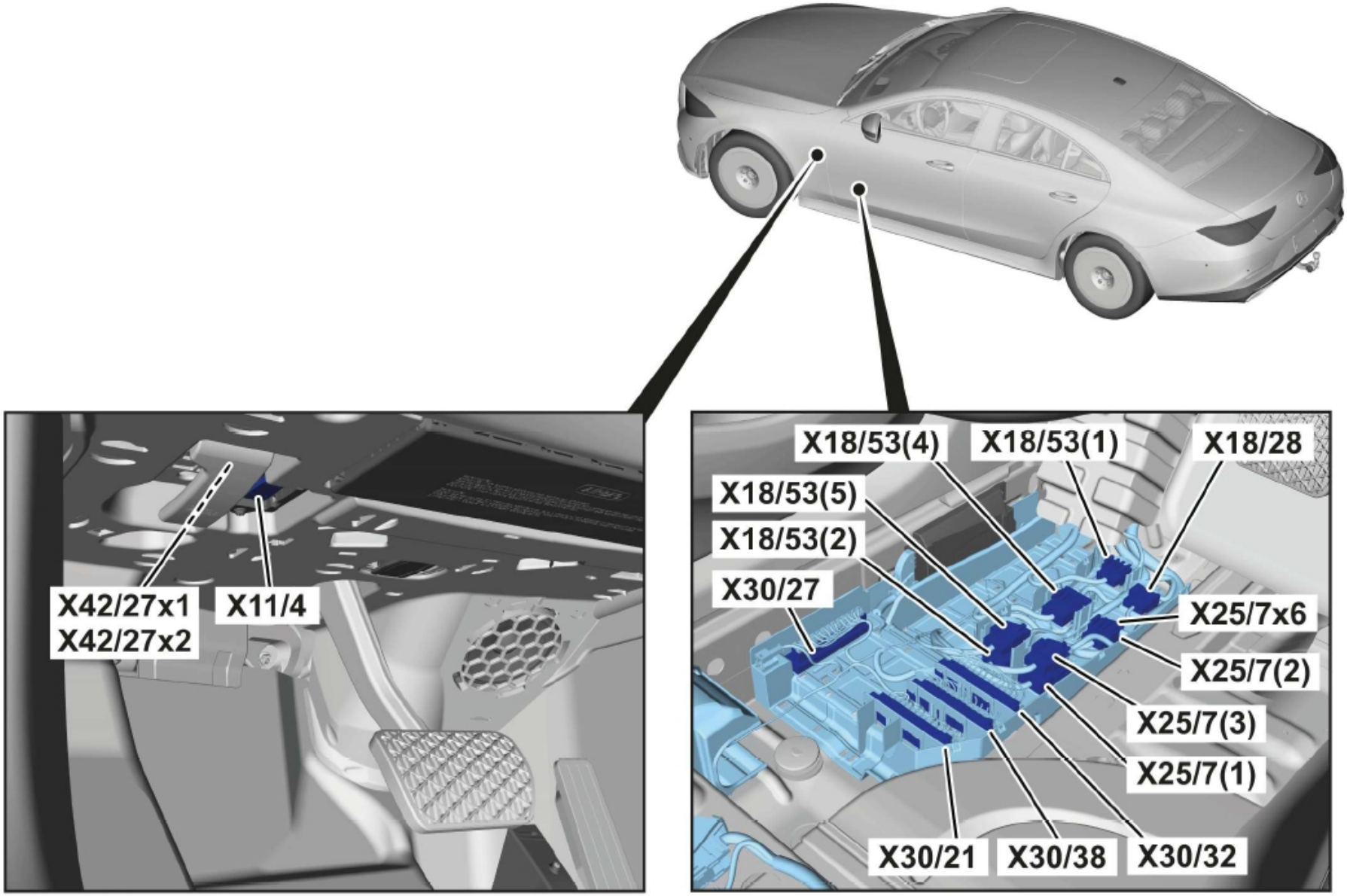
Appendix 38. W257 ground point W34 location



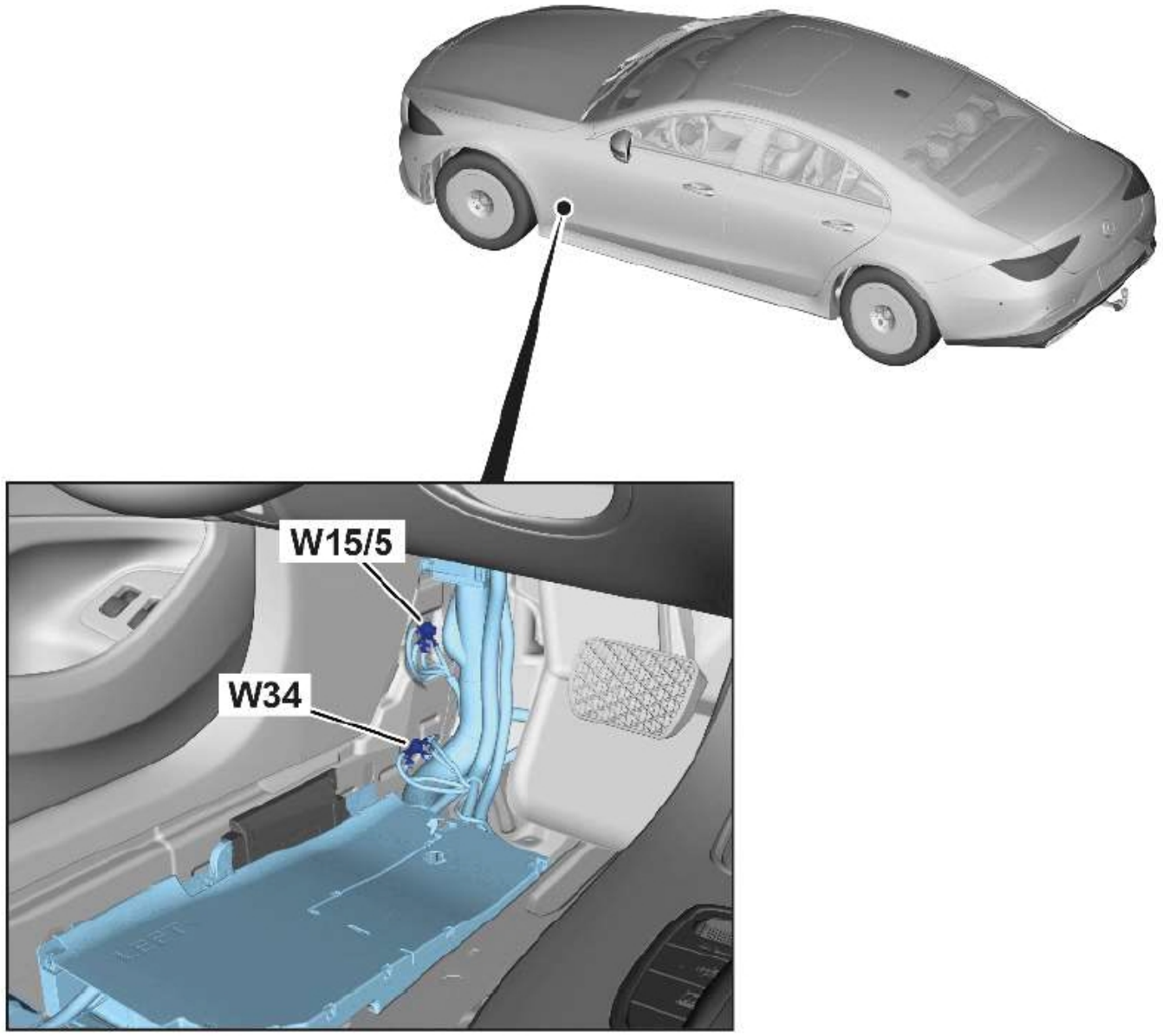
Appendix 39. W257 F1/3 fuse and relay module location



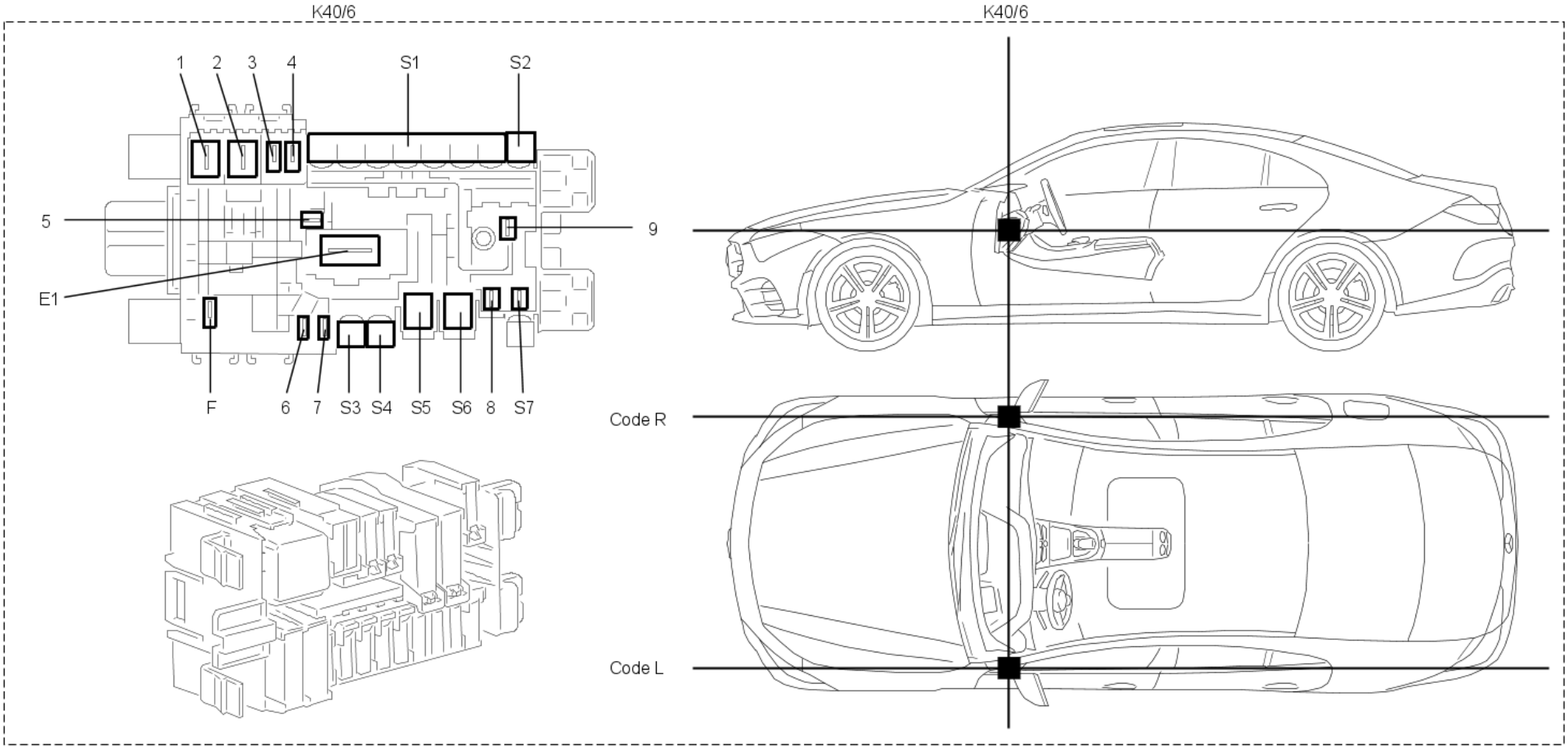
Appendix 40. W257FL X18/53 location



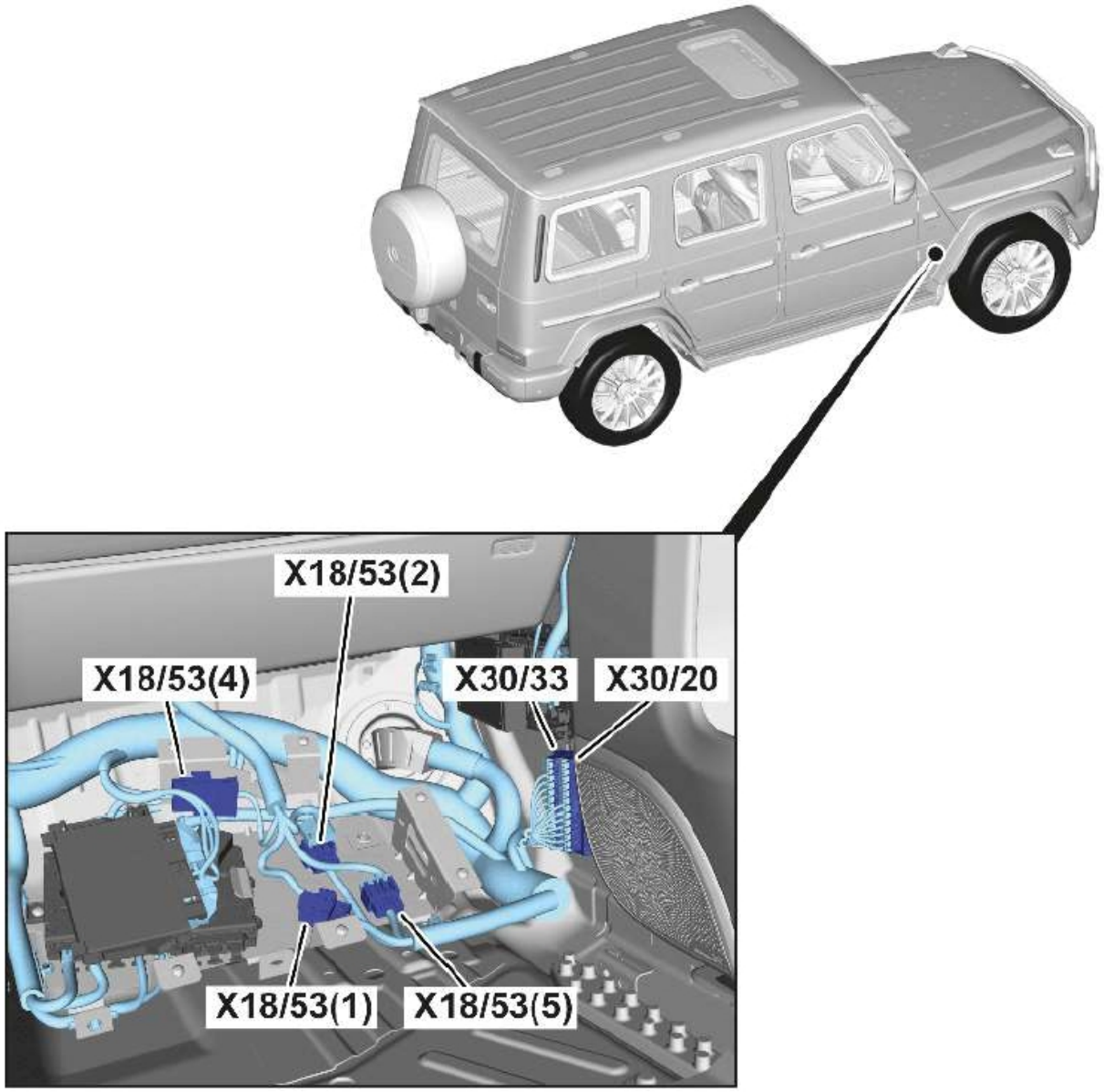
Appendix 41. W257FL ground point W34 location



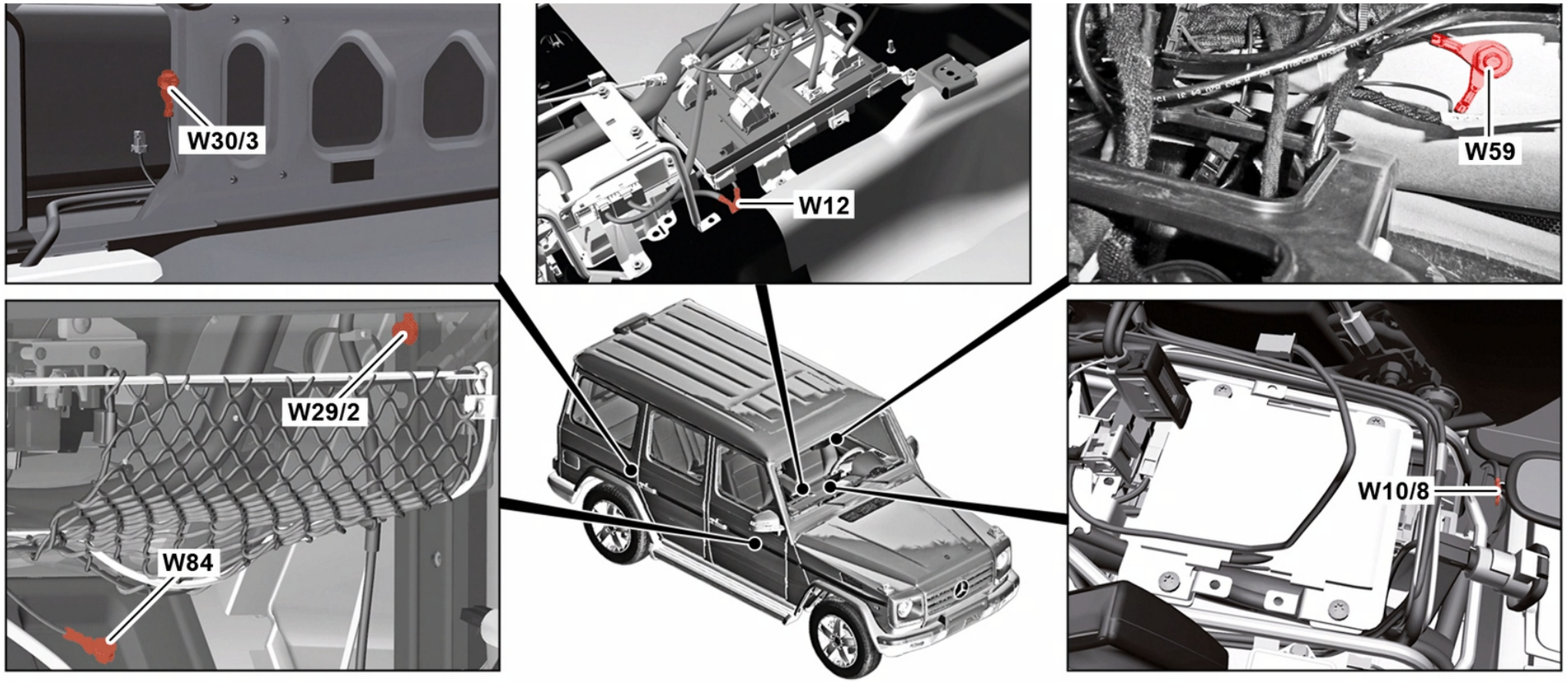
Appendix 42. W257FL K40/6 fuse and relay module location



Appendix 43. W463 X30/20 location



Appendix 44. W463 ground point W29/2 location



Appendix 45. W463 F1/3 fuse and relay module location