Model S EDR Data Retrieval Guide For Vehicles Built After 2/25/2019

This Service Document supersedes CD-20-20-002 R1, dated October 16, 2020. This new revision, R2, replaces all EDR retrieval procedures with Service Manual links. Each content change is marked by a vertical line in the left margin. Discard the previous version and replace it with this one.

Introduction

The Tesla Model S is equipped with an Event Data Recorder (EDR). The EDR records data related to vehicle dynamics and safety systems when the system senses a crash or a crash-like situation, such as hitting a road obstacle. This data is stored in the vehicle's Restraint Control Module (RCM).

This guide describes how to retrieve EDR data from the RCM of a Tesla Model S built after February 25, 2019. For Model S vehicles built up to or on February 25, 2019, refer to CD-18-20-001, "Model S EDR Data Retrieval Guide For Vehicles Built Through 2/25/2019".

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For vehicles outside of China, this guide and other Tesla EDR information can be found at https://edr.tesla.com. For vehicles in China, this guide and other Tesla EDR information can be found at https://edr.tesla.cn.

There are two methods for connecting to the RCM:

1. In-vehicle connection, which allows you to connect to the RCM without removing it from the vehicle. An in-vehicle connection may not be possible if the vehicle has extensive damage. If an in-vehicle connection can be established, data is retrieved with less vehicle disassembly than when using a direct-to-module connection. For more information about in-vehicle retrieval, refer to "Establish an In-Vehicle Connection," on page 4.
2. Direct-to-module connection, which requires that you physically remove the RCM from the vehicle, then connect to it and retrieve the data. For more information about direct-to-module retrieval, refer to "Establish a Direct-to-Module Connection," on page 4.

NOTE: The RCM in vehicles built after February 25, 2019, uses different connectors than RCM in vehicles built through February 25, 2019. When making a direct-to-module connection to the RCM, make sure to have the correct cable. Refer to the "Direct-to-module connection" section of Table 1. EDR Data Retrieval Cable requirements for more information.

Tools Required

To retrieve the data from the RCM, you will need the following special tools:

- PCAN-USB Adapter
- A Windows computer running the Tesla EDR Retrieval Program:
  - For vehicles outside of China, download the program at https://edr.tesla.com/download.
  - For vehicles in China, download the program at https://edr.tesla.cn/download.
- An appropriate data retrieval cable:

Retrieval Method	Model S Build Date	Required Cable
In-vehicle connection	After September 14, 2016	Tesla In-Vehicle EDR Retrieval Cable. Tesla part number 1131144.
Direct-to-module connection	After February 25, 2019	Tesla Model S Direct-To-Module EDR Retrieval Cable. Tesla part number 1492139.

Table 1. EDR Data Retrieval Cable requirements

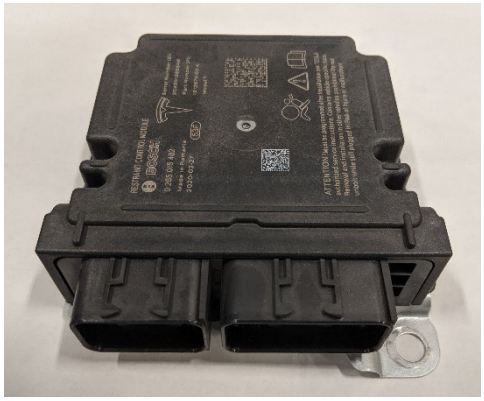
Vehicle RCM	Description and information
	In vehicles built after February 25, 2019, this version of the RCM has black connectors and uses retention latches to secure the RCM connectors to the vehicle wiring harness. **NOTE**: There are no retention latches to secure the connectors to the Direct-To-Module EDR Retrieval Cable. **Cable Required**: Tesla Model S Direct-To-Module EDR Retrieval Cable. Tesla part number 1492139.
	In vehicles built through February 25, 2019, this version of the RCM has red connectors and uses retention latches on the cable to secure the RCM connectors to the vehicle wiring harness and to the Direct-To-Module EDR Retrieval Cable. **NOTE**: For Model S vehicles built up to or on February 25, 2019, refer to CD-18-20-001, “Model S EDR Data Retrieval Guide For Vehicles Built Through 2/25/2019” for information about making a direct connection to the RCM in these vehicles.

Table 2. RCM version and required EDR Data Retrieval Cable

NOTE: The vehicle manufacture month and year can be found on the label attached to the B-pillar. If necessary, contact Tesla customer support to obtain the actual vehicle build date.

For vehicles outside of China, required cables and software are available at https://edr.tesla.com. For vehicles in China, required cables and software are available at https://edr.tesla.cn.

Establish an In-Vehicle Connection

Instructions for in-vehicle EDR data retrieval can be found in the Service Manual.

Establish a Direct-to-Module Connection

Instructions for direct-to-module EDR data retrieval can be found in the Service Manual.

Using External Power for the RCM

Instructions for using external power for the RCM can be found in the Service Manual.

Retrieve Data

Instructions for EDR data retrieval can be found in the Service Manual.

For Further Assistance

For vehicles outside of China, contact Crash Data Group:

- Email: crash@crashdatagroup.com
- Phone: +1 (951) 252-9254
- Toll Free: +1 (800) 280-7940

For vehicles in China, contact Bosch Automotive Service Technology (Suzhou) Co., Ltd.:

- Phone: (400) 619-9188