

As of May 2020, Model 3 vehicles are configured with a third-party CAN bus on connector X181.

Disclaimer

Connecting or hard-wiring non-Tesla or third-party accessories or equipment into existing Tesla vehicle electrical systems is not supported by Tesla, and the installer performs this modification at their own risk. Installed unapproved equipment is not covered by any Tesla warranty, and is considered a non-standard modification of the vehicle.

⚠ CAUTION: Installing unapproved components might be detrimental and incur damage to the vehicle. Tesla employees are not permitted to install or assist in the installation of any non-Tesla component. Service to rectify any condition or damage caused by the installation of unapproved components is not covered by any warranty.

📄 NOTE: Installing unapproved components might affect the serviceability of the vehicle. Tesla employees are not permitted to service any non-Tesla component. Should the vehicle require service of a Tesla system which has been modified, such service is regarded as Modified Service. Modified Service requires a signed [SC-18-00-008](#), "Authorization and Release for Modified Service", and may not be covered by any warranty. Tesla is not responsible for any damage incurred to an unapproved component while performing a Modified Service.

⚠ CAUTION: Modifications can affect vehicle performance and behavior, and might compromise vehicle safety. Tesla does not guarantee the usability, functionality, or reliability of the modification, nor will Tesla bear any responsibility to the consequences of the modification.

Third-Party CAN Bus Connector Location

Connector X181 is an SAE J1962 connector located under the LH side of the instrument panel (Figure 1), and is accessed by removing the LH footwell cover.

📄 NOTE: Contact Tesla for further information if the vehicle is without connector X181.

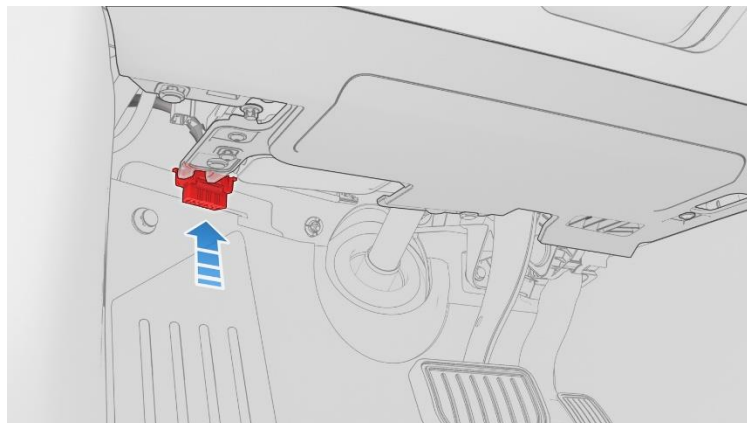
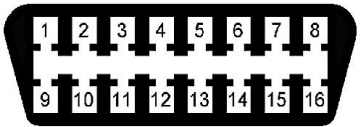


Figure 1 – Location of connector X181 (LHD shown)

Connector X181 Pinout and Considerations

The SAE J1962 connector offers a third-party CAN bus interface on Pin 6 and Pin 14. Additionally, chassis ground is available on Pin 4 and Pin 5, and 12V+ is available on Pin 3 and Pin 16.

	Pin 3	ACCESSORY_FEED_2 – 12V+
	Pin 4	GND
	Pin 5	GND
	Pin 6	CAN HIGH - 500 kbps
	Pin 14	CAN LOW - 500 kbps
	Pin 16	ACCESSORY_FEED_1 – 12V+

The device connected to connector X181 is powered while the vehicle is awake through Pin 16 (ACCESSORY_FEED_1) or Pin 3 (ACCESSORY_FEED_2), either of which can provide up to 1000 mA continuous.

⚠ CAUTION: Do not splice Pin 3 (ACCESSORY_FEED_2) and Pin 16 (ACCESSORY_FEED_1) together. If greater current capacity is required, refer to [CD-19-17-001](#), “Model 3 12V Power Circuit for Third-Party Accessories”.

📖 NOTE: When the vehicle wakes up, Pin 3 (ACCESSORY_FEED_2) and Pin 16 (ACCESSORY_FEED_1) power on simultaneously. When the vehicle goes to sleep, Pin 3 (ACCESSORY_FEED_2) powers off, 10 seconds later, Pin 16 (ACCESSORY_FEED_1) powers off.