

CORTEX EBC

VEHICLE-SPECIFIC WIRING INFORMATION

2011–2023 Ford Mustang GT & 2011-2026 Ford F-150 V8 | CB-2 CAN Bus Interface Method | Updated 7/26/2026



SOFTWARE CONFIGURATION

RPM SIGNAL CONFIGURATION	SPEED SIGNAL CONFIGURATION
2011-2017: - Pulses per cycle: 2 - Rotations per cycle: 1 2018-2026: - Pulses per cycle: 1 - Rotations per cycle: 1	Pulses per mile: 3600

WIRING

CB-2 WIRE COLOR	DESCRIPTION	SIGNAL TYPE	CONNECTION DETAILS
RED	Switched 12 V	Power Input	Connect to switched and fused +12 V power source.
BLACK	Chassis Ground	Ground Input	Connect to chassis ground.
BLUE	CAN Low	Digital I/O	Connect to HS1 CAN- on vehicle wiring harness.
YELLOW	CAN High	Digital I/O	Connect to HS1 CAN+ on vehicle wiring harness.
ORANGE	Speed Output	Digital Output	Connect to speed input on Cortex EBC (GREEN).
GREEN	RPM Output	Digital Output	Connect to RPM input on Cortex EBC (PINK).

CONNECTING TO HS1 CAN BUS: 2011–2023 MUSTANG AND 2011–2020 F-150

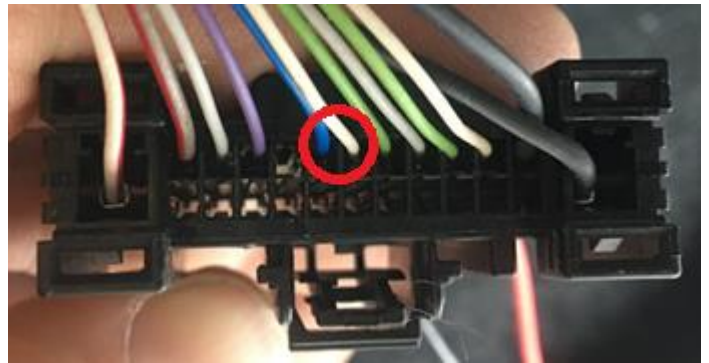
The HS1 CAN bus on the 2011–2023 Mustang and 2011–2020 F-150 vehicles can be easily accessed at the Data Link Connector (DLC) module, which is below the left side of the dash on the driver side of the vehicle. The OBD2 connector, used for scan tools and tuning cables, is located on the front of the DLC module.



On the back of the DLC module, there is a 24-pin wiring connector. The HS1 CAN bus wires are located near the center of the row farthest from the connector's retaining clip, as shown in the image to the right (your connector may have more or fewer wires depending on the year and trim level of the vehicle).

Carefully tap/splice the yellow and blue wires from the CB-2 CAN Bus Interface into the corresponding HS1 CAN bus wires on the DLC wiring connector using the information in the table below.

NOTE: There may be multiple white wires that connect to the DLC module. The correct white wire will twist around the HS1 CAN + wire as they enter the taped section of the wiring harness.



CB-2 SIGNAL	CB-2 WIRE COLOR	DLC SIGNAL	DLC WIRE COLOR 2011–2014 MUSTANG & F-150	DLC WIRE COLOR 2015–2023 MUSTANG & 2015–2020 F-150
CAN High	YELLOW	HS1 CAN +	WHITE/BLUE	BLUE
CAN Low	BLUE	HS1 CAN-	WHITE	WHITE

CONNECTING TO HS1/HS2 CAN BUS: 2021–2026 F-150

The HS1 CAN bus on the 2021–2023 F-150 and HS2 CAN bus on the 2024–2026 F-150 can be easily accessed behind the glove box. Open the glove box, then push in on the tabs on both sidewalls to release the stopper tabs. Allow the glove box to drop down fully. Gently pull the unit toward you to unclip it from the bottom hinges.



With the glove box removed, you will have access to four wiring connectors. The necessary CAN bus wires are located in the front row of wires on the dark gray connector that is next to the brown connector.



Carefully tap/splice the yellow and blue wires from the CB-2 CAN Bus Interface into Pin 3 (CAN+) and Pin 4 (CAN-) on the dark gray connector, as outlined below.

