Mac

chris3g BMW Remote Coding Instructions - Mac
(PC/Windows instructions are here - 📄 BMW Remote Coding Instructions)
https://chris3g.com

Requirements
Apple Silicon or Intel Mac
MacOS 11 (Big Sur) or newer
Administrative (sudo) access is required - Corporate issued devices must verify in advance.

WIRED Vehicle connection with OBD>Ethernet Cable
https://www.amazon.com/TTXSPP-OBD2-Cable-RJ45-Compatible/dp/B0CSX3F5GR/

For Macbook without ethernet port, USB C > Ethernet dongle
USB C https://www.amazon.com/gp/product/B077KXY71Q/

If you need to get your computer closer to your WiFi signal, you can use an extension cable
https://www.amazon.com/Ethernet-Extension-Weetcoocm-Shielded-Connector/dp/B08QGJ6GY2/

The best setup to ensure reliable connectivity is to avoid WiFi completely and connect your Macbook directly to your Internet router with an ethernet cable (using an additional USB-C adapter, if necessary). Cables of up to 300ft can be used without any issue.
https://www.amazon.com/Ethernet-Higher-Bandwidth-Internet-Network/dp/B017R12KF2/

A stable internet connection AT THE CAR's LOCATION is critical. Wired is preferred. Please verify the stability of a WiFi connection prior to your session. You can use our connection test to check your connection.

MOBILE DATA / CELLULAR CONNECTION from your phone **is not an appropriate connection to flash a vehicle.** Minor coding can be performed in most cases, but we will not flash vehicle modules over mobile data.

Security Software and VPN - IMPORTANT
If your Mac has any 3rd party security software - Norton , McAfee, etc OR any VPN software such as ExpressVPN, NordVPN, etc, you MUST fully disable it in advance. These products will block and/or interfere with the remote coding.

PLEASE READ AND TEST THE SETUP INSTRUCTIONS PRIOR TO YOUR CODING SESSION.

The setup software includes a "Just testing" mode. After confirming successful connection to the car, you will have the option to exit the script. Please use this to confirm connectivity in advance.

IF YOU EXPERIENCE ANY ISSUES, PLEASE CONTACT ME VIA CHAT. PLEASE HAVE THE CAR CONNECTED AND READY AT THE START OF OUR SCHEDULED TIME.

Setup Instructions

1. **Download the Mac Coding Client Setup disk image - [chris3g Coding Download](#)**
2. Mount (double-click) the downloaded DMG file
3. Run (double-click) the app 'chris3g-setup'. Approve any popup prompts that appear.

4. Type your MacOS admin password at the prompt. **You will not see the password as you type.** Press ENTER.

5. When the below window appears, you are ready to connect the car -

```
●●●                  📁 chris — chris3g Remote Coding Setup — sleep ‹ sudo — 95×36
[chris3g Coding Setup - Enter your MacOS admin password:                                        ]

Password:


chris3g Remote Coding Setup MacOS

macOS Version: 15.3.2 (Sequoia)
Software Version: v1.6.1

Your software version is up-to-date

Xcode Command Line Tools are already installed.

Firewall not enabled, skipping adjustments

Starting vehicle detection...

1 - Connect vehicle to computer via Ethernet adapter.
2 - Turn ignition ON (engine OFF).
3 - Wait up to 60 seconds for the connection to establish.

Controls during detection:
    [X] Cancel and Exit

Looking for vehicle connection... [\]
▊
```

6. Place the car into Diagnostic Mode (G Series) by quickly pressing the start button (3) times. F series turn ignition ON.
    a. The vehicle makes a "bong" sound when it enters diagnostic mode. You can also confirm diagnostic mode is active by checking in the notifications area of the idrive screen.
    b. Connect the driver's seatbelt.
    c. Leave the driver's door open.
    d. Turn off headlights, radio, HVAC, and anything aftermarket accessories that consume power.

7. Connect to your vehicle using the OBD>Ethernet cable, using a USB adapter if necessary. **ENSURE THAT THE OBD PLUG IS FULLY AND FIRMLY SEATED IN THE SOCKET.** *The most common reason for connectivity issues is an incorrectly seated OBD connector*.

8. Wait 30-60 seconds for the connection to be established.

9. When the vehicle is successfully detected, the VIN and IP address appears. If this is a test run, at this point you may press the 'X' key to exit the script. If you are setting up for the actual coding session, no further action is needed.

```
● ● ●              📁 chris — chris3g Remote Coding Setup — caffeinate ‹ sudo — 98×32

chris3g Remote Coding Setup MacOS

macOS Version: 15.3.2 (Sequoia)
Software Version: v1.6.1

Your software version is up-to-date

Xcode Command Line Tools are already installed.

Firewall not enabled, skipping adjustments

Starting vehicle detection...

1 — Connect vehicle to computer via Ethernet adapter.
2 — Turn ignition ON (engine OFF).
3 — Wait up to 60 seconds for the connection to establish.

Controls during detection:
   [X] Cancel and Exit

Looking for vehicle connection... [\]

✅ Vehicle Detected!
   IP Address: 169.254.123.123
   VIN: WBS43AY03PFP53708

Vehicle was successfully detected. If this is a test run, you may exit the script now.

Press X to exit, VPN install will begin in 11s. (press P to proceed now) ...█
```

Session Completion

When you have been notified that the session has completed, perform the following steps (the order is not strictly important):

- Disconnect the cable from the OBD port.

- Return to the software application running on your Mac and press "x" on the keyboard to initiate the software cleanup process. Your Mac will be restored to its original state.

- Press the vehicle ignition button to turn the ignition off. Disconnect seat belt. Exit the vehicle, close the door, and lock the vehicle. It is recommended to allow the vehicle to sleep for ~10 minutes to allow all modules to power down.
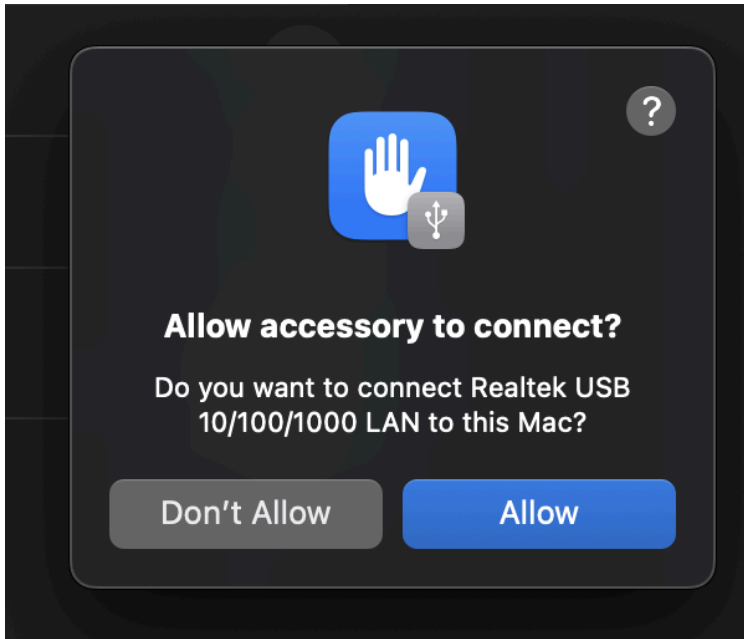
Troubleshooting

Vehicle Detection

The software will not proceed until it has identified that you have a valid network interface that is plausibly connected to your car. This is to save both of us time. If there is no interface found, the vehicle will never be detected and remote coding cannot work. When an interface is not found, this is almost always a physical connection problem. The easiest way to confirm that your interface is physically connected with the car is to CHECK THE PORT LIGHTS -

If you do not see the green and yellow lights lit and flashing, something is not connected. The OBD plug may not be fully seated, the vehicle ignition may have turned off, the USB adapter may not be detected by your PC. Make sure the ignition is on (Diag mode is best), try reconnecting everything, try a different USB port. Until the port lights are on and flashing, there is no possible way to proceed.

Some adapters do not have port lights. If your adapter doesn't have lights, you can still proceed, you just won't have an easy visual indicator if the connection is active. You can hit enter in the software to have it recheck the connection after you have performed the troubleshooting steps.

On Mac OS you may be prompted to allow your USB adapter to connect. You must ALLOW this connection.

If an interface was found but the vehicle was not detected, it is possible that the vehicle was already assigned an IP address by a different adapter. This is especially likely if you have a BM3 adapter and it was connected prior to starting this process.

To resolve this issue, unplug any connections to the OBD port, close and lock the vehicle. Move the vehicle key out of range (at least 15ft away) and allow the vehicle to go to sleep - approximately 10 minutes. This will reset the gateway.

LEIB CAN Exhaust Pro Flap Controller

Users of the LEIB flap controller device will find that their flap controller does not work immediately following the session. This is because LEIB includes a feature to automatically disable the device when a BMW tester is connected. A tester connection is utilized to monitor battery status throughout the session, and your LEIB device will temporarily disable itself. This is completely normal, and it will resume normal function automatically after the vehicle is power cycled.

BMS Canflex Flex Fuel Harness

Users of the BMS Canflex Flex Fuel Harness MUST UNPLUG the device before proceeding with the coding session. This device blocks diagnostic communication with critical ECU modules in the car.

Link to Instructions for PC users - 📄 **BMW Remote Coding Instructions**