2021-2024 BMW 4 Series - Diagnose a Faulty LED

2021-2024 BMW 4 Series | Moderate | 30-60 minutes (diagnosis only; replacement is a shop job) | $0 DIY

TOOLS

Owner’s manual (lighting and fuses sections) Fuse puller or needle-nose pliers Flashlight Phone camera (to document housing part numbers)

STEPS

1. **Identify the headlight technology on your 4 Series - The 2021-2024 BMW 4 Series (G22** coupe, G23 convertible, G26 Gran Coupe) comes standard with full-LED headlights - BMW eliminated replaceable halogen bulbs from this car entirely. Confirm it: open the hood and look behind the housings.
2. **Understand what the owner’s manual requires - BMW’s owner’s manual for the G22 generation** states that the LED light sources are not owner-serviceable and must be replaced by a BMW service center.
3. **Check the simple causes first - A dark headlight is not proof the LEDs died. With the** ignition off, check the headlight fuses against the fuse diagram, and inspect the main connector on the back of the housing - press it firmly home and look for corrosion, moisture, or...
4. **Get a scan before you spend money - Take the car to a BMW dealer or a BMW-specialist** independent shop for a diagnostic scan. Ask for the diagnosis and the exact part number in writing.
5. **Match the replacement unit exactly if the housing is dead - A used OEM housing from a** wrecked G22/G23/G26 is a legitimate saving, but verify the donor car’s option codes or compare the unit side by side with yours before committing.
6. **Have the unit installed, coded, and aimed by a shop - An uncoded or misaimed LED unit** will throw dashboard errors, disable the adaptive functions, and can blind oncoming traffic. This is firmly a professional job on the 4 Series - budget for the shop time, not just the part.
7. **Verify all functions after the repair - Confirm no warning lights or messages appear in** the cluster or the iDrive check-control menu. If anything warns, the module coding is incomplete - back to the shop, not back to the parts catalog.

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