

Front Light Error E13 — Don't Swap the Headlight Yet

“ Connectors and water ingress cause E13 far more often than a failed headlight.

Applies to: D-series · **Error code:** E13

<https://www.youtube.com/embed/2GJ8wjVpw-g?rel=0>

E13 Error? Don't Swap the Headlight Yet — Check This First — if the player does not load, [open the video on YouTube](#).

What E13 means

E13 = Front Light Error. The controller is not seeing the expected state on the headlight circuit — an open circuit, a short, or a signal it does not recognize.

Check in this order

1. **Inspect the headlight connector.** Unplug it, look for corrosion (green/white deposit), backed-out pins or heat damage, and reseat firmly. This is the most common cause.
2. **Look for water ingress.** If E13 appeared after a wet ride or a wash, dry the connector and treat the contacts — do not replace anything yet.
3. **Wiggle test** with the bike powered: flex the headlight lead and watch for the error appearing or disappearing.
4. **Trace the lead** from the headlight back to the controller. Check for chafing where it passes the steering head and at the fork.

5. **Test the headlight itself.** Does it illuminate at all? A light that works but still raises E13 points at the signal path, not the lamp.
6. **Only then replace the headlight assembly** — see [Spare Parts](#) for the compatible part and current price.

Also check the tail light and brake light circuit if your model links them to the same feed.

Decision guide

Finding	Action
Connector corroded or loose	Clean and reseal — no cost
Error only after water exposure	Dry and treat the contacts
Wiggle test changes the fault	Lead or connector fault
Lamp does not illuminate, wiring sound	Replace the headlight assembly
Lamp works, wiring sound, error persists	Check the controller and comms

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