

2004 gmc 2500hd trailer wiring diagram

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What Color Trailer Wires Go Where?**

4-Pin Connector Wiring:

- **Brown:** Right turn and brake lights
- **Yellow:** Left turn and brake lights
- **White:** Ground
- **Red:** Tail lights

5-Wire Color Code:

- **Brown:** Left turn and brake lights
- **Yellow:** Right turn and brake lights
- **White:** Ground
- **Red:** Tail lights
- **Blue:** Auxiliary (for electric brakes or reverse lights)

Auxiliary Wire:

The blue wire provides power for auxiliary functions such as electric brakes or reverse lights.

Right Turn Signal Wire:

Yellow

Left Turn Signal and Brake Lights Wire:

- 4-pin connector: Yellow
- 5-wire connector: Brown

Trailer Lights Without Ground:

No, trailer lights will not work without a ground wire.

TM on Trailer Plug:

Indicates that the plug is a "trailer module," which may include additional features such as battery charging.

5 Wires on a Trailer:

- Left turn and brake lights
- Right turn and brake lights
- Ground
- Tail lights
- Auxiliary

Positive and Negative Wire on Trailer Brakes:

It does not matter which wire is positive or negative on trailer brakes.

4-Pin and 5-Pin Trailer Wiring Difference:

5-pin wiring includes an additional blue wire for auxiliary functions.

Colors Go Where on Trailer Plug:

- Brown: Left turn/brake lights
- Yellow: Right turn/brake lights
- White: Ground
- Red: Tail lights
- Blue: Auxiliary (if present)

How to Wire a 4-Pin Trailer Plug:

1. Strip insulation from wire ends.
2. Connect wires as follows: brown to yellow, yellow to brown, white to white, and red to red.
3. Secure connections with wire nuts or electrical tape.

Color Coding for Electrical Code:

- Black: Hot
- White: Neutral
- Green or bare copper: Ground

Consequences of Incorrect Wiring:

Incorrect wiring can damage the trailer or connected vehicle.

Trailer Light Color Placement:

- Red lights: Tail lights
- Yellow lights: Turn signals
- White lights: Backup lights

5 Wires on a Trailer:

- Left turn and brake lights
- Right turn and brake lights
- Ground
- Tail lights
- Auxiliary (for electric brakes or reverse lights)

Positive Wire on Travel Trailer:

Red

Running Light Color Code:

- Amber: Front running lights

- Red: Rear running lights

7-Pin to 4-Pin Trailer Plug Connection:

Use an adapter to connect the 7-pin plug to the 4-pin plug. The adapter will convert the 7-pin signals to the 4-pin configuration.

Tail Light Wiring Harness Colors:

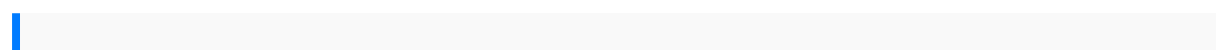
- Black: Ground
- Brown: Right turn/brake lights
- Green: Left turn/brake lights
- Yellow: Backup lights
- Red: Tail lights

Common Trailer Wiring:

Flat 4-pin connector

Tips for Wiring Trailer Lights:

- Use a multimeter to test wire continuity and polarity.
- Consult the trailer's documentation for specific wiring instructions.
- Ensure all connections are secure and weatherproof.



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