

Car Installation Manual – PIXEL NANO 4G GSM Tracker

Power Source: Courtesy Light

Tools and Materials Required

- PIXEL NANO 4G GSM Tracker
- Small flathead screwdriver
- Multimeter (DC voltage measurement)
- Electrical tape or heat-shrink tubing
- Soldering iron (recommended, not required)
- Wire stripper
- Zip ties / double-sided tape (recommended, not required)

Step 1: Access the Courtesy Light

1. Locate the courtesy light fixture in the vehicle ceiling.
2. Remove the plastic lens cover by gently prying it with a flathead screwdriver. Insert the tool into the small notch or gap to avoid damage.
3. Unscrew the fixture (if screws are present) or release it from its clips to expose the wiring harness.

Step 2: Identify Power and Ground Wires

Important: Disconnect the vehicle battery before proceeding.

1. Locate the wiring harness connected to the courtesy light.
2. Set the multimeter to DC Voltage (VDC).
3. Identify the **ground wire**:
 - Place the black probe on a known ground point (e.g., metal screw on chassis).
 - Probe the harness wires with the red probe.
 - The wire showing 0V when the light is off and a small voltage when the light is on is the ground wire.

4. Identify the **constant positive (+12V) wire**:

- Keep the black probe on ground.
- Probe the wires again with the red probe.
- The wire showing ~+12V regardless of light status is the constant positive supply.

Note: Wire colours vary between manufacturers. Do not rely on colour alone—always confirm with a multimeter.

Step 3: Connect the Tracker

1. Prepare the tracker's power leads: strip insulation from the red (+) and black (–) wires.
2. Connect the **positive lead (red)**:
 - Strip a small section of insulation from the identified constant +12V wire (do not cut through).
 - Twist the tracker's red wire around the exposed section.
 - Solder the joint for durability.
 - Insulate with electrical tape or heat-shrink tubing.
3. Connect the **ground lead (black)**:
 - Repeat the same process with the identified ground wire.
 - Solder and insulate the connection.

Step 4: Test and Secure Installation

1. Reconnect the vehicle battery.
2. Verify tracker power-up: check indicator LEDs for power and GSM signal.
3. Secure the tracker:
 - Position the device behind the headliner, away from metal obstructions.
 - Use zip ties or strong double-sided tape to hold it in place.
4. Reinstall the courtesy light fixture and lens cover. Ensure a snug fit.

Final Recommendations

- **Antenna Placement:** If the tracker has an external antenna, keep it clear of metal surfaces for optimal reception.
- **Backup Battery:** The internal battery ensures operation if the vehicle battery is disconnected.
- **Configuration:** Refer to the PIXEL NANO 4G manual for software setup, including APN configuration, SIM card settings, and geofencing features.