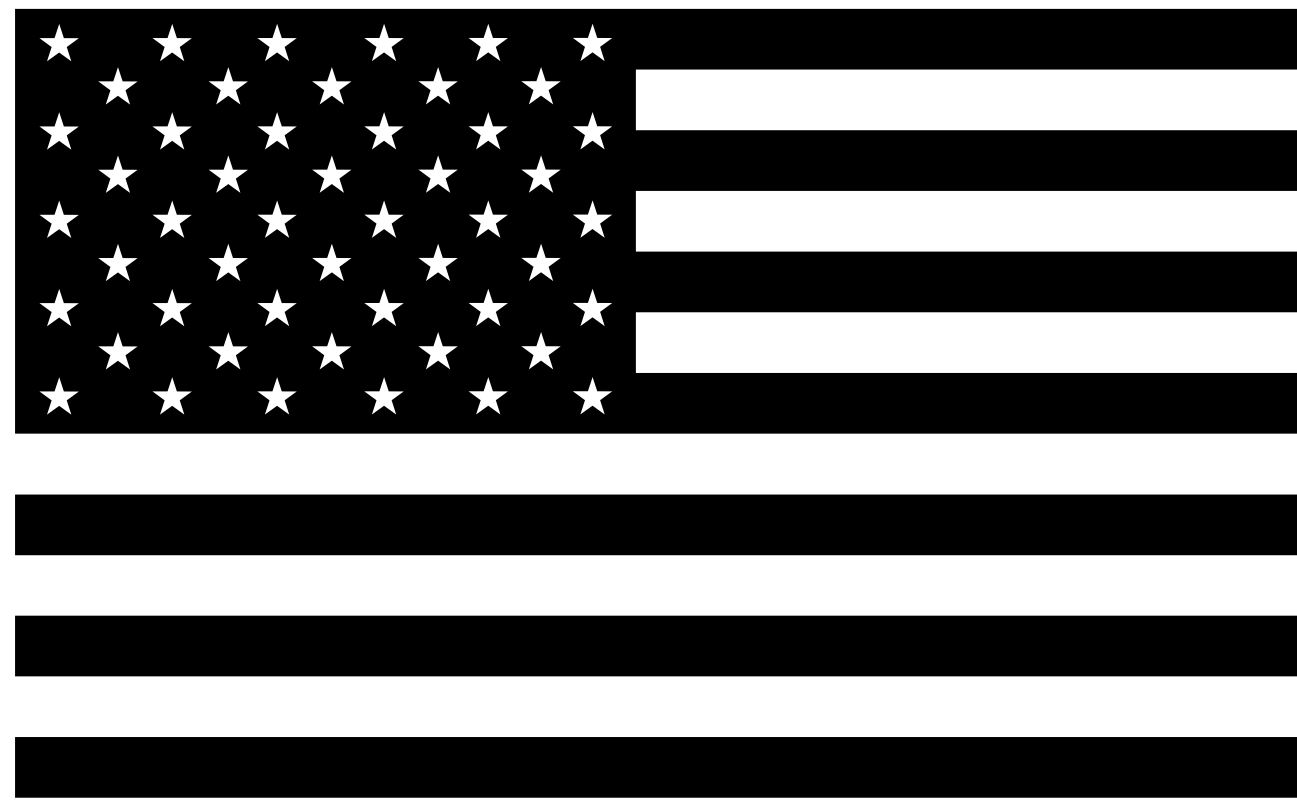


FREEDOM

★ LIGHTING SUPPLY ★



EST 2022

WHEEL LIGHT INSTALLATION GUIDE



PLUG & PLAY WHEEL LIGHT SYSTEMS

4-Row • 5-Row • 8-Row • 10-Row • 20-Row

12V SYSTEMS • PLUG & PLAY • INSTALL SUPPORT

239-300-8339 | info@freedomlightingsupply.com | freedomlightingsupply.com

BEFORE YOU BEGIN

Read this guide completely before beginning. Installation varies by vehicle, brake layout, wheel-light configuration,

12V POWER ONLY - Test the complete system using ONLY a 12V power source. Do not use 18V, 20V, 24V, or higher-voltage tool batteries; they can damage the system and may void warranty coverage.

CRITICAL BRAKE CLEARANCE - No part of the ring, brackets, bolts, rivets, hardware, connectors, or wiring may contact the rotor, caliper, brake hose/line, fittings, or surrounding brake components.

MOUNTING BRACKETS - Brackets used to fasten the ring should remain as close to their original shape as possible. Only remove or move unused bracket(s) that interfere with the caliper.

PRE-INSTALLATION

- Verify kit contents and fitment; test all four rings, controller, harness, remote/app, and connections before mounting.
- Park on a level surface and use properly rated lifting equipment and jack stands.
- Disconnect the negative battery terminal before final electrical connections.
- Keep wiring away from tires, wheels, rotors, calipers, exhaust, sharp edges, steering components, and suspension pinch points.
- Do not cut, splice, extend, or modify the supplied harness. Use Freedom Lighting Supply Plug & Play extensions when additional length is required.

INSTALLATION - STEPS 1-7

STEP 1

Pre-InstallationSystem Test

Temporarily connect all four wheel lights to the supplied harness and controller. Test with 12V power only. Confirm every ring illuminates and the RF remote and/or Bluetooth app operates correctly.

STEP 2

Raise Vehicle & Remove Wheels

Follow the vehicle manufacturer's lifting procedure. Safely support the vehicle and remove the wheels to access the brake dust shield and mounting area.

STEP 3

Position & Clock the Ring

Center the ring around the hub and brake assembly. Rotate it so usable mounting tabs have solid dust-shield locations and the lead wire can follow the factory brake caliper hose/line route.

STEP 4

Identify Caliper Interference

One or two unused tabs may fall at the caliper location. Remove or move only those unused tabs completely out of the way so they cannot contact the caliper or another brake component.

STEP 5

Fasten Ring to Dust Shield

Secure usable mounting brackets with the provided hardware. Properly installed tri-fold rivets may also be used by experienced installers. Keep the ring centered and secure.

STEP 6

Route Wheel-Light Lead

Route the lead alongside the factory brake hose/line path and secure it with zip ties so it moves naturally with steering and suspension. Do not kink, pinch, compress, pull tightly against, or interfere with the brake hose.

STEP 7

Route & Secure Remaining Harness

Continue toward the main harness/controller. Secure at multiple points and leave controlled slack for full steering and suspension movement. Avoid rotating parts, sharp edges, exhaust heat, rubbing, and pinch points.

INSTALLATION - STEPS 8-12

STEP 8

Connect Plug & Play Harness

Align and fully seat each water proof connector. Do not force a connector. If it will not seat correctly, inspect for bent, damaged, loose, or pushed-back pins before reconnecting.

STEP 9

Mount Controller & Connect 12V Power

Mount the controller in a secure, protected location and connect the supplied system to standard 12V vehicle power using the provided harness and correct positive/negative polarity.

STEP 10

Test Before Reinstalling Wheels

Reconnect battery power and operate all four rings. Verify consistent illumination and controller operation, then inspect every bracket, fastener, connector, and wire route while the wheels remain removed.

STEP 11

Full Steering & Clearance Check

Turn steering from full lock to full lock. Verify the ring, brackets, hardware, and wiring remain clear of the brake system, steering components, suspension, tire/wheel path, and all moving parts.

STEP 12

Reinstall Wheels & Final Inspection

Reinstall wheels and torque fasteners to the vehicle manufacturer's specification. After the first drive, inspect again for loose hardware, movement, rubbing, wire tension, or contact. Periodically recheck thereafter.

DO NOT SKIP THE CLEARANCE CHECK - Wiring must have enough controlled slack for steering and suspension movement without pulling, rubbing, pinching, or contacting the tire, wheel, rotor, caliper, or other moving components.

REMOTE & APP SETUP

RF Remote Pairing: Remove the fuse to disconnect controller power. Press and hold the remote's OFF button. While holding OFF, reinstall the fuse. Continue holding for approximately 2 seconds after power is restored. The remote light should blink to confirm pairing. If needed, replace the remote battery and repeat.



LEDShow Bluetooth Setup
Power the controller, open LEDShow, allow Bluetooth and Location permissions, and let the app locate the controller automatically. Do not pair through the phone's normal Bluetooth settings. Connect through LEDShow only. If the app does not connect, verify permissions, close/reopen the app, and try again.

FINAL CHECKLIST

- All four rings illuminate, are centered, and are securely mounted.
- No ring, bracket, fastener, connector, or wire contacts the brake system.
- Wiring is secured and has controlled slack for full steering/suspension movement.
- Waterproof connectors are fully seated; controller is secure on standard 12V power with correct polarity.
- RF remote and LEDShow operate correctly when applicable; full-lock steering clearance is verified.
- Wheel fasteners are torqued to the vehicle manufacturer's specification.

QUICK TROUBLESHOOTING

No power: Verify 12V power, polarity, controller connections, fuse/circuit protection, and Plug & Play connections. One ring out: Reconnect its waterproof connector and inspect for bent, damaged, loose, or pushed-back pins; if practical, test it on a known-working connection. Flicker: Inspect power, connectors, pins, and wiring for tension, rubbing, pinching, or damage. Remote: Replace the battery if needed and repeat pairing. LEDShow: Confirm controller power, Bluetooth, and app permissions; connect through LEDShow, not normal Bluetooth settings.

WARRANTY & SUPPORT

Freedom Lighting Supply lighting products are backed by our Limited Lifetime Warranty for the original purchaser, subject to current warranty terms. Controllers are covered for 3 years. Coverage excludes improper installation, misuse, physical contact, rubbing, moving-component contact, excessive heat, and unauthorized modification. Cutting, splicing, extending, or altering the supplied Plug & Play harness may void applicable warranty coverage.

NEED HELP? - Contact Freedom Lighting Supply before modifying the system. Installation support: Monday-Saturday, 8:00 AM-8:00 PM ET • 239-300-8339 • info@freedomlightingsupply.com

Quality products. Exceptional service. Support you can count on. That's The Freedom Guarantee.