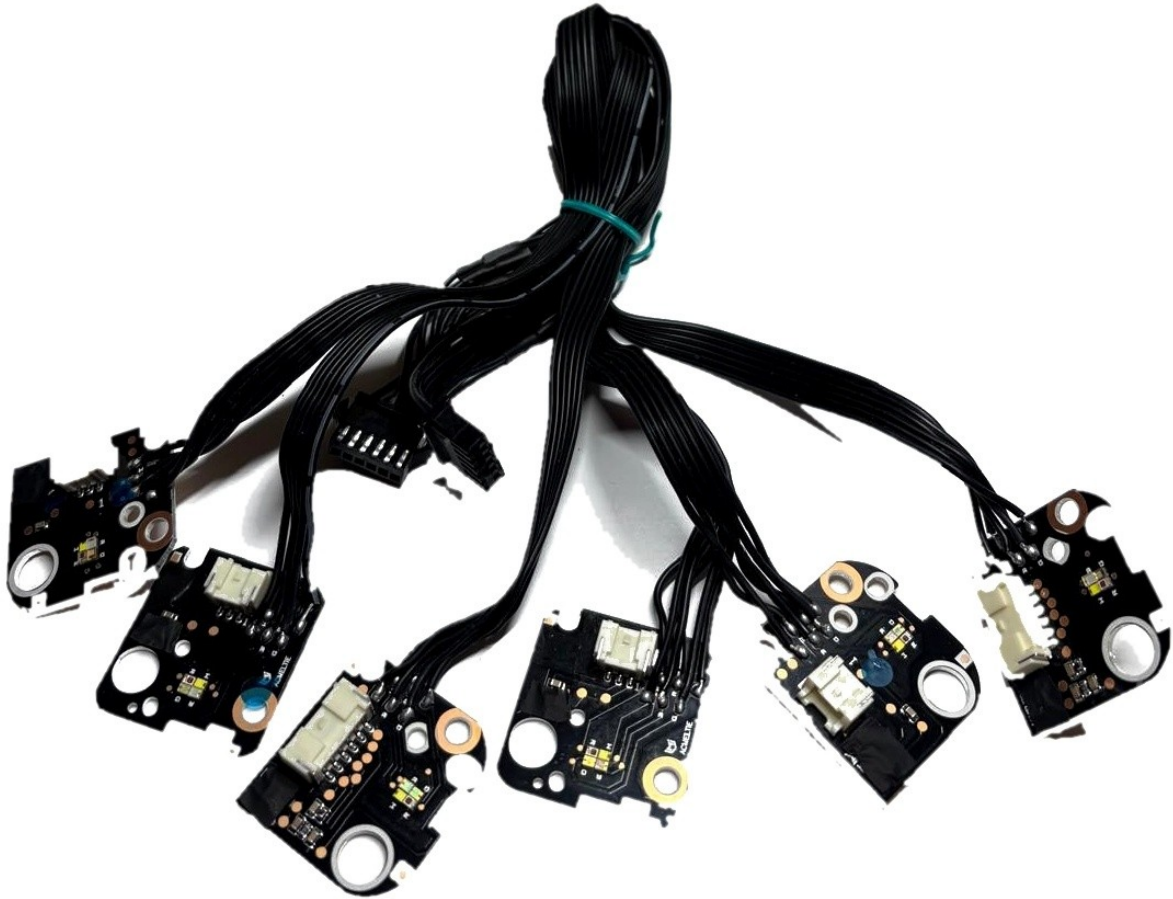


HIDS-DIRECT

BMW 3 Series F30 / F31 / F35 LCI

RGBW Angel Eye DRL LED Conversion Kit

Installation & User Guide



PRODUCT IDENTIFICATION

OE references: 63117419610 / 63117419615 | SKU: F30-F35-RGBW-DRL | 1 Year Warranty

For compatible BMW F30, F31 and F35 LCI vehicles with factory Full LED headlights.

Professional installation recommended. Read this guide before fitting.

1. Before You Start

Compatibility, safety and installation requirements

IMPORTANT - CHECK BEFORE FITTING

BMW used different LED board and headlight configurations across the F30/F31/F35 range. Compare your original LED boards, connectors and OE reference numbers before installation. If anything differs, stop and contact HIDS-DIRECT before fitting.

Intended vehicle applications

Vehicle	Body style	Headlight requirement
F30 LCI	Saloon	Compatible factory Full LED
F31 LCI	Touring / Estate	Compatible factory Full LED
F35 LCI	Long-wheelbase Saloon	Compatible factory Full LED

Reference numbers

- 63117419610 / 63 11 7 419 610 / 7419610
- 63117419615 / 63 11 7 419 615 / 7419615

Safety

- Switch off the ignition and exterior lighting before starting work. Disconnect the vehicle battery where required by the appropriate workshop procedure.
- Do not connect or disconnect LED boards, harnesses or the controller while the lighting circuit is powered.
- Handle LED circuit boards by their edges. Avoid touching LED emitters, contacts or components unnecessarily.
- Protect the headlight from moisture and contamination. Refit all covers, seals and fixings correctly.
- This guide is an installation overview. Always follow the appropriate BMW workshop procedure for headlight removal and refitting.
- Professional installation by a suitably qualified automotive lighting technician is recommended.

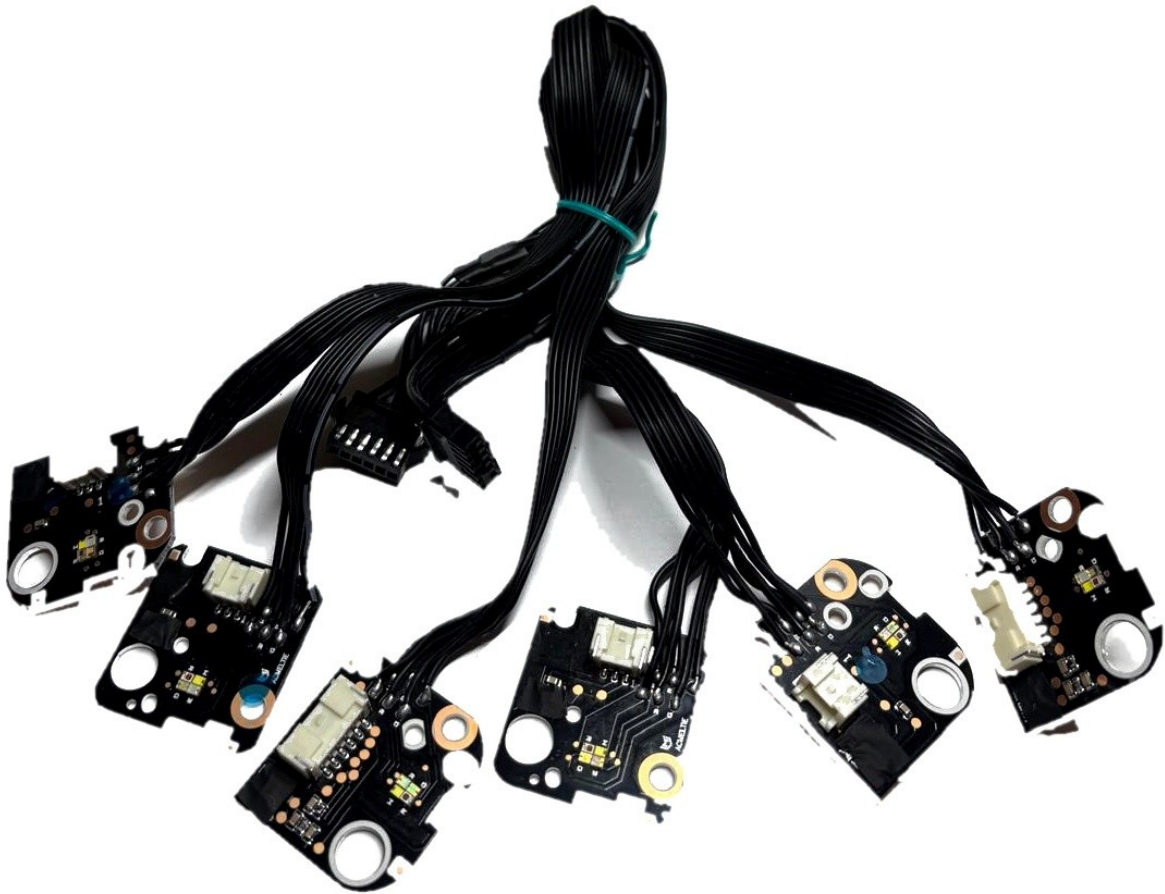
NOT SUITABLE FOR

Xenon or Halogen headlight systems. Do not fit where the original LED boards, connectors or mounting points do not match.

2. Kit Contents

Actual supplied components - shown at readable scale

The photographs in this section use the actual supplied kit. They are enlarged for identification and are not generic illustrations.



6 x RGBW LED boards - complete set for both headlights

IDENTIFICATION TIP

Before removing the original boards, compare the board shapes, mounting holes and connectors with the six supplied RGBW boards.

2. Kit Contents - continued

Controller and vehicle-side connection harness



RGBW controller / control unit



Vehicle-side connection harness

2. Kit Contents - continued

LED board wiring loom / multi-connector harness



LED board wiring loom / multi-connector harness

NO PRINTED APP MANUAL IN THE BOX

The smartphone control app is downloaded using the QR code in the Smartphone App Setup section of this guide. Keep a digital copy of this manual with the vehicle or installer records.

3. Installation Overview

High-level fitting sequence - professional installation recommended

BEFORE REMOVING ANYTHING

Confirm that the replacement boards and connectors correspond with the original equipment in the vehicle. Photograph the original installation before disconnecting components; this can help during reassembly.

1

Prepare the vehicle

Switch off the ignition and lighting. Follow the correct workshop procedure for electrical isolation and safe headlight removal.

2

Access the headlight LED boards

Remove the relevant headlight unit or covers as required by the vehicle specification. Keep all seals, screws and covers clean and organised.

3

Compare the original boards

Before fitting, compare board shape, mounting holes, connectors and OE references. Do not force a board or connector that does not match.

4

Fit the RGBW boards

Remove the original LED light-source boards and fit the corresponding RGBW replacement boards using the existing mounting locations/connectors where applicable.

5

Connect the supplied wiring

Connect the LED board loom, RGBW controller and vehicle-side harness. Ensure connectors are fully seated and wiring is routed clear of sharp edges, heat and moving parts.

6

Test before final reassembly

Restore power according to the workshop procedure. Test white mode and colour control before fully refitting covers and the headlight unit.

7

Reassemble and seal

Refit all covers, seals, fasteners and the headlight unit. Check that the lamp remains correctly sealed against moisture ingress.

8

Final function check

Confirm normal white DRL operation and app control. Check that no wiring is trapped and that all other headlight functions operate normally.

CODING / VEHICLE VARIATION

Installation requirements can vary according to vehicle and headlight specification. This guide does not claim that coding is always required or never required; follow vehicle-specific diagnostic/workshop requirements where applicable.

4. Smartphone App Setup & Control

Scan the original supplier QR code below to obtain the control app



SCAN TO DOWNLOAD THE CONTROL APP

Controls confirmed from the supplied app interface

- Colour wheel / custom colour selection
- Preset colours including white, red, green, blue, cyan, yellow/amber and other shades
- Brightness adjustment
- White-light mode
- Multiple lighting modes / effects
- Music-reactive control
- Timer function

Basic operation

1

Install the app

Use your phone camera to scan the QR code above and follow the download/open instructions presented on your device.

2

Power the RGBW system

The controller must be powered through the installed vehicle harness before the app can communicate with the lighting system.

3

Open the control screen

Open the app and select the available RGB/RGBW lighting controller when shown. App wording and appearance may vary by app version or phone platform.

4

Select white or colour mode

Use the colour wheel or presets to choose the desired colour. Use the white preset/mode when a white DRL appearance is required.

5

Adjust features

Set brightness and, where desired, select available effect, music-reactive or timer functions.

APP CONNECTION NOTE

The supplier has confirmed smartphone app control. Wireless protocol naming may vary by app/controller version, so this manual does not state a specific protocol such as Bluetooth unless shown by the installed app/device.

5. Using the RGBW Lighting

Road-use guidance, care and sensible operation

PUBLIC-ROAD USE

Forward-facing vehicle lighting is subject to legal colour restrictions. For normal road use, use the system in its white DRL mode. Coloured modes are intended for show, display, off-road or private-property use where permitted.

Recommended operating practice

- Use the dedicated white mode for a factory-style white DRL appearance during normal road use.
- Use coloured and animated modes only where their use is permitted and does not conflict with road-vehicle lighting rules.
- Do not use rapidly changing or distracting lighting while driving on public roads.
- Avoid repeatedly connecting or disconnecting the LED boards or controller with the vehicle powered.
- After washing the vehicle or working on the headlights, check for condensation or signs that a headlight cover/seal has not been refitted correctly.

Care of the system

- Keep the controller and connectors protected from direct water ingress.
- Keep wiring secured away from heat sources, sharp edges and moving components.
- Do not modify the PCB components, wiring pinout or controller enclosure.
- If a fault develops, switch the lighting system off and inspect all connectors before further use.

WARRANTY

HIDS-DIRECT provides a 1 Year Warranty on this product. Warranty does not cover damage caused by incorrect fitment, water ingress resulting from improper headlight sealing, wiring modification, physical damage or use outside the product specification.

6. Troubleshooting & Support

Simple checks before contacting HIDS-DIRECT

Symptom	Checks
No lights after installation	Switch the system off. Re-check vehicle-side power connection, controller connectors and the LED-board loom. Confirm all plugs are fully seated and no pins are damaged.
One board / one area does not illuminate	Switch off power and inspect the corresponding board connector and wiring. Compare with the opposite side. Do not swap wiring while powered.
Wrong colour or incomplete colour	Check the relevant RGBW board connector and loom connection. A partially seated multi-pin connector can prevent one colour channel from operating correctly.
App does not control the lights	Confirm the controller is powered and the lights operate in at least one mode. Re-open the app, follow any phone permission prompts, and keep the phone close to the controller during initial connection.
White mode does not operate correctly	Select the white preset/mode in the app and confirm all board connectors are fully seated. If one section differs, inspect that board and its harness connection.
Condensation after installation	Stop using coloured/white modes if electrical connections may be exposed to moisture. Re-check headlight rear covers, seals and refitting procedure before further use.

WHEN CONTACTING SUPPORT

Please provide your vehicle model/year, headlight type, photos of the original LED boards/connectors and a clear description of the fault. This helps us check compatibility and diagnose installation issues quickly.

HIDS-DIRECT support

Product page: <https://www.hids-direct.co.uk/bmw-f30-f31-f35-lci-rgbw-angel-eye-drl-led-conversion-kit-63117419610-63117419615/>

Website: www.hids-direct.co.uk

Keep this guide for future reference.

Guide prepared for HIDS-DIRECT - RGBW Angel Eye DRL Conversion Kit