![AdMore Lighting Inc. logo]

Congratulations on your purchase of the LED41-S-TS LIGHT KIT!

The LED41-S-TS LIGHT KIT will work on any motorcycle fitted with side-mounted GIVI E41 cases.  The kit is easy to install and significantly enhances your visibility on the road and the good looks of your E41 cases.  Each kit contains two high intensity LED inserts that fit perfectly behind the red lens of each E41 case.  The custom wire harness with the embedded mini controller fits neatly under your motorcycle seat or behind the tail light assembly.  The mini controller allows you to connect the light kit to your bike's tail and brake lights *and* turn signals!  Your case lights will always be on when riding, the lights will brighten when you apply your brakes and each case light will flash with your right or left turn signal.

*Please note:  We make no guarantee that the LED41-S-TS LIGHT KIT is legal for street use in your area.  You should never rely on your LED41-S-TS LIGHT KIT alone – always ensure that your stock brake light and turn signals are functioning properly.  The LED41-S-TS LIGHT KIT is intended to <u>complement</u> your bike's original safety lights for added safety.*

Figure 1


Figure 2


Figure 3


Figure 4


Figure 5


Figure 6

# LED41-S-TS LIGHT KIT

## Installation Instructions

1. Mount both cases on GIVI racks.  Identify a convenient location on each case to mount connector. (Note: Depending on rack type, knock-out may only be accessible on one of the two cases.  The GIVI rack may hide one of the two knock-outs making only one of the knock-outs usable for the connector).  Mark convenient location for each connector using a small piece of masking tape. (Fig. 1 & 2)
2. Drill pilot holes in marked locations.  Using supplied 7/16" drill bit, enlarge pilot holes.
**3.** Insert male wiring harnesses through drilled hole in each case (Green = Right, Yellow = Left).  Note that it may be necessary to discard the rubber washer in order to screw the nut onto the threads of the connector. Ensure connector is tight (hand tighten only) but **do not over tighten!**  (Fig. 3)
4. From inside each case, loosen but do not remove the screw holding the red lens in place.  Remove red lens and white insert.
5. Mark the location 1" (25mm) from the screw hole.  Drill a small hole - approx 5/32" or 4mm. (Fig. 4)
6. Using a sharp knife, remove small nipples on case from under white insert. (Fig. 5)
7. Feed wires through new hole in case.
8. Place LED insert with red lens on top.  Some patience is required to reassemble lens with new LED insert.  It will be a tight fit but the lens will be secured once the screw is tightened. (Do not over tighten!)
9. Run the new wires inside the case and route and secure to your preference.
10. Use the supplied connectors to connect the wires (red to red, black to green or yellow).
11. Use black electrical tape to secure and conceal wires.
12. Repeat steps 4-11 for other case.
13. <u>Note</u>: All wires may be shortened to meet your specific installation and routing preferences.
14. Proceed to LED41-S-TS LIGHT KIT Wiring Instructions
15. Tidy up installation securing all cables.  Use the included cable clamps to secure the cable to the inside of your case.  Be sure to clean surface with an alcohol wipe prior to affixing the cable clamps to ensure maximum adhesion.

Tools/items required:

- Drill with standard drill bits
- Small Phillips screwdriver
- Electrical tape
- Circuit tester (if available)

> **CAUTION:**  The micro-controller embedded in the main power harness **MUST <u>NOT</u>** be submersed in water.  Ensure that the micro-controller is placed in a location that does not fill with water!

Items supplied:

- 2 – custom cut LED inserts
- 1 - 5-wire power harness with embedded mini-controller
- 2 - 2-wire case harnesses for mounting within each case (right/left)
- Connector kit with cable clamps
- 7/16" drill bit
- These instructions
- Warranty card

> **\*** The connector can be placed in any number of places on the case.  We recommend, mounting the case on your rack to determine exactly where you most prefer to install the connector.  Should you make a mistake or change your mind in the future, we can supply complementary plugs to fill a 7/16" drilled hole.  Contact us at www.admorelighting.com.

# LED41-S-TS LIGHT KIT

## Wiring Instructions

Your AdMore Light Kit has been designed to operate with the tail, brake **and turn signal** light functions of your motorcycle or scooter.  Using the supplied wire tap connectors, look as close to the rear taillight as possible to locate the indicated wires:

| 5-Wire Harness | Your Motorcycle |
|---|---|
| BLUE* | + 12V (switched) |
| RED | Brake Light wire |
| GREEN | Right Turn Signal wire |
| YELLOW | Left Turn Signal wire |
| BLACK | Ground |

\*  Blue wire must be connected to switched +12V to operate the embedded mini controller.  On many motorcycles and scooters, the tail light wire may be used for this purpose.  For motorcycles or scooters with a single brake/tail light wire, connect the Blue wire to a +12V source switched with the ignition.  Connect the Red wire to the single brake/tail light wire.

Mount cases on motorcycle or scooter and attach harnesses from bike to male connectors on cases.  Note: Connector locks by inserting and turning (1/4 turn).

Test functioning of the light kit with your motorcycle's tail & brake lights & turn signals.

> **CAUTION:**  The controller embedded in the main power harness **MUST NOT** be submersed in water. Ensure that the controller is placed in a location that does not fill with water!

Troubleshooting:

1. Ensure the Blue wire is connected to +12v
2. Ensure Black wire is connected to a solid ground
3. If lights still do not illuminate, test the power harness by connecting the Blue wire directly to +12v of a battery and the Black wire to solid ground.

Visit www.admorelighting.com for information on
other AdMore products, replacement parts and special offers!