TRUX ACCESSORIES

RGB CONTROL KIT

INSTALLATION GUIDE

(TU-1088)

RGB SERIES OVERVIEW

PRODUCT OVERVIEW:

Welcome to the Future of Truck Lighting – The Trux RGB Lighting System

First, Trux redefined the road with the DUAL REVOLUTION. Now, we're taking innovation even further with the RGB EVOLUTION – the most advanced, intelligent, and customizable LED lighting system ever built for trucks.

This isn't just a lighting upgrade – it's a revolution in color, control, and creativity.

Transform every drive into a statement of power and style, with full command of color, brightness, and effects – all from your smartphone.

The Trux RGB system is to modern lighting what the halogen bulb was to the candle: a leap forward in design, function, and technology.

BRIGHTER. SMARTER. BOLDER.

This is the RGB EVOLUTION – only from Trux.

SYSTEM COMPONENTS:

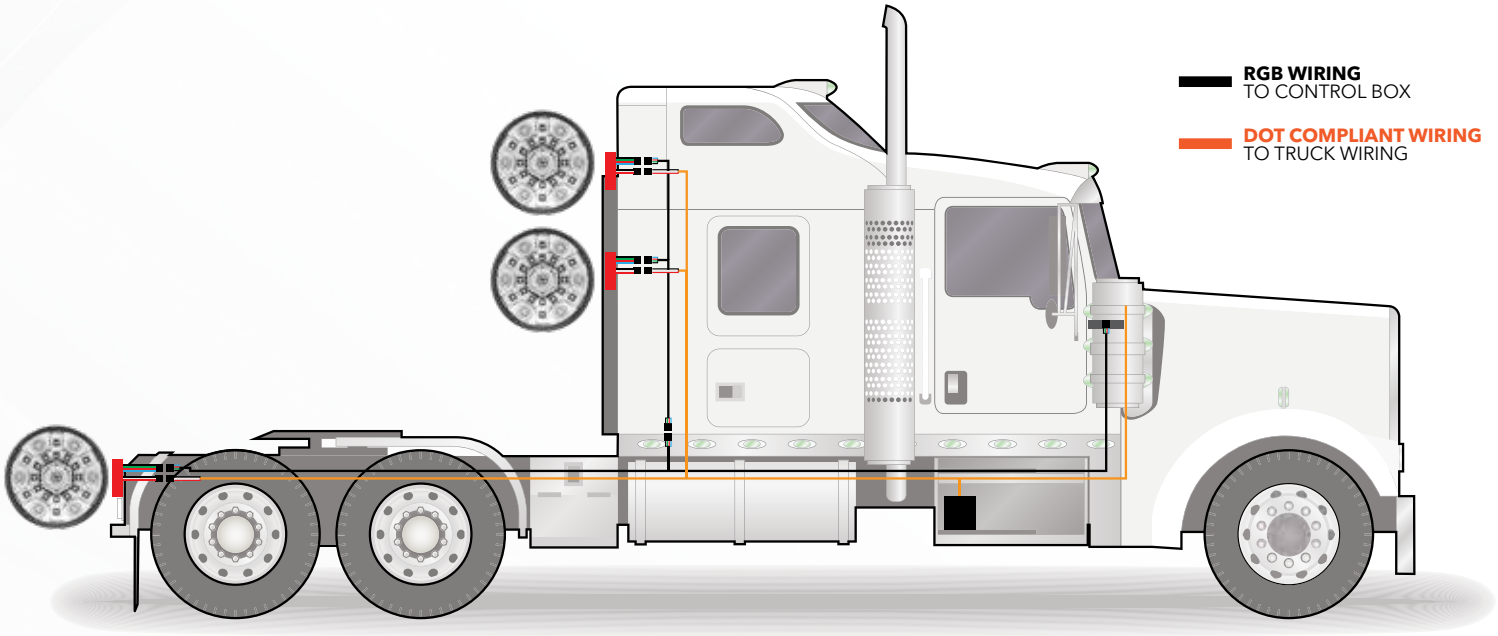
The Trux RGB System is comprised of four main components:

DOT/RGB LEDs

Trux's RGB Control Power Box

Remote Control
(Battery Not Included)

4-Prong Wire Harness



THE POWER OF DUAL-ZONE TECHNOLOGY

Each Trux RGB light features two completely independent lighting systems housed within a single, seamless unit:
- DOT/SAE-Compliant Lighting for standard highway use (Stop, Tail, Turn, and Marker functions).
- RGB Auxiliary Lighting for customizable, color-rich effects when you're off the road.

Because the same diode cannot be used for both DOT and RGB applications, Trux developed a dual-zone light architecture – a first in the industry. This breakthrough design gives each light a futuristic look and ensures that both systems operate in perfect harmony without interference.

SIMPLE, SMART INSTALLATION

Each lighting zone has its own independent wiring system, making installation straightforward and reliable:
- DOT Wiring: Connects to your truck's Stop, Tail, Turn, and Marker circuits using familiar PL3 plugs, bullet connectors, and standard harnesses.
- RGB Wiring: Connects to the Trux RGB Control Box via our newly designed 0.180" bullet plug 4-prong, color-coded harnesses. These plug-and-play connections ensure every RGB wire is perfectly aligned for optimal performance.

MEET THE BRAIN – THE TRUX RGB CONTROL BOX

The RGB Control Box is the heart of the system – a powerful central hub that brings your entire lighting setup to life. Once all RGB lights are connected, you gain full, real-time control through the Trux RGB App or the included remote control.
A high-sensitivity infrared sensor built into the front of the control box receives your commands and instantly synchronizes up to 100+ lights across your vehicle. From solid colors to dynamic patterns, fades, strobes, and music-reactive effects, you have thousands of combinations at your fingertips.

8-ZONE RGB CUSTOMIZATION

The control box features 8 independent RGB zones, each with its own dedicated power switch. This allows you to choose exactly which zones receive power, giving you the flexibility to create unique and fully customized lighting setups.
While all zones share the same RGB lighting functions, the ability to power zones on or off individually lets you instantly change the look and layout of your lighting array.

Example setup:
- Zone 1 – Cab Roof Lights
- Zone 2 – Sleeper Lights
- Zone 3 – Mud Flap Hanger Lights

Activate zones individually or power multiple zones at once for a coordinated lighting effect.
A master power switch conveniently located on the front panel lets you turn the entire system on or off with a single press.
(For setup ideas, refer to the included 7-Zone diagram for sample configuration.)

FLEXIBLE MOUNTING OPTIONS

The control box is designed with mounting holes on all four corners, giving you complete freedom to install it wherever it fits best – inside the cab or under the dash. Just ensure that your smartphone or remote has a clear line of sight to the box's infrared sensor.

HIGHWAY LEGAL. OFF-ROAD LEGENDARY

On the highway, your Trux lights are fully DOT/SAE compliant – safe, bright, and built to last. Off the highway, unleash their full potential: explore a digital lighting universe of thousands of colors, patterns, movements, and music-activated shows that turn your truck into a moving masterpiece.

TRUX RGB – LIGHTING. REINVENTED

The future of truck lighting is here – and it's brighter, smarter, and more personal than ever before.

SAFETY PRECAUTIONS

IMPORTANT: Before installing or operating this product, both the installation technician and the operator must read this manual in full. It contains critical information that can help prevent serious injury or damage. Be sure to provide these instructions to the end user.

CAUTION: These instructions are provided as a general guideline only. Additional mounting, wiring and/or weather seals may be required and are the responsibility of the installer. The manufacturer assumes no responsibility for the integrity of the installation.

WARNING!

- This document contains all the essential information required for the proper and safe installation of your TRUX product.
- Do not install or operate this product unless you have read and understood the information contained in this Installation Guide.
- Failure to follow these safety guidelines could result in damage to the product, vehicle and can even cause serious injury and/or death to those you are seeking to protect.
- TRUX recommends this product to be installed professionally.

SAFETY PRECAUTIONS

1. **Authorized Use Only:** This equipment is intended for use by authorized personnel only. Users are responsible for knowing and complying with all applicable city, state, and federal laws regarding signal and auxiliary lighting devices. The manufacturer assumes no liability for any loss resulting from improper use of this product.
2. **Installer Qualifications:** Proper installation of this product requires the installer to have a solid understanding of automotive electronics, systems, and procedures. Professional Installer is recommended.
3. **Warranty Notice:** Using non-specified installation parts or hardware will void the product warranty.
4. **Training and Installation:** Proper installation, along with comprehensive operator training in the use, care, and maintenance of signal and auxiliary lighting, is essential to ensure the well-being of both emergency personnel and the public.
5. **Daily Inspection and Signal Projection:** It is the responsibility of the vehicle operator to verify daily that all features of this product are functioning correctly. While in use, ensure that the signal light is not obstructed by vehicle components (e.g., open trunks, compartment doors), people, vehicles, or other barriers.
6. **Operator Responsibility and Right-of-Way:** Signal and auxiliary lighting devices do not guarantee that all drivers will see or respond to the signal. Never assume the right-of-way. It is the operator's responsibility to ensure it is safe before entering intersections, driving against traffic, responding at high speeds, or maneuvering around traffic lanes.
7. **Proper installation is critical:** Correct placement and installation are vital to the device's performance. Install the system to maximize output and ensure controls are within easy reach of the operator, allowing safe operation without taking eyes off the road.
8. **Precautions for Drilling Installation:** If installation of this product involves drilling holes, the installer must ensure that no vehicle components or other critical parts are at risk of damage. Always inspect both sides of the mounting surface before drilling. After drilling, remove any burrs to ensure a clean, safe installation.
9. **Warning: High-Intensity Light Hazard:** This product includes strobe lights, halogen bulbs, high-intensity LEDs, or a combination thereof. Do not look directly into the lights, as doing so may cause temporary blindness or permanent eye damage.
10. **Check for obstructions during use:** Operators must ensure the signal and auxiliary lighting device is not blocked by open compartments, vehicle components, bystanders, or other obstacles when in use on the road. Always verify system functionality during use.
11. **Optimal Placement of Controls for Operator:** Install the product controls in a location that is easily accessible and allows the operator to maintain continuous visual contact with the roadway. This ensures both convenience and visibility during operation.
12. **Air Bag Deployment Zones:** Do not install this product or route any wiring in areas that may interfere with air bag deployment. Equipment in these zones can impair air bag effectiveness or become dangerous projectiles. Consult the vehicle owner's manual to identify deployment zones and ensure a mounting location that minimizes risk, especially avoiding head impact areas.
13. **Electrical Guidelines:** Many signal and auxiliary lighting devices operate using high electrical voltages and/or currents. Always exercise caution when working with live electrical connections.
14. **Grounding Requirements:** This product must be properly grounded. Improper grounding or shorted electrical connections can result in high current arcing, posing risks of personal injury and/or severe vehicle damage, including fire. If wires are not properly bonded and grounded, this could cause a fire hazard.
15. **NOT FOLLOWING THESE PRECAUTIONS AND INSTRUCTIONS MAY CAUSE DAMAGE TO THE PRODUCT OR VEHICLE AND COULD LEAD TO SERIOUS INJURY TO YOU OR YOUR PASSENGERS.**

PRIOR TO INSTALLATION

Important Safety Instructions:

1. Disable power before wiring up the system.
2. Before drilling into any vehicle surface, ensure the area is clear of electrical wiring, fuel lines, upholstery, and any other components that could be damaged.
3. This system must be connected to its own separate, fused power point. This ensures that the system's components will continue operating even if another electrical accessory fails.
4. Carefully remove the lights and system components from its packaging and place it on a flat, stable surface.
5. Inspect each unit thoroughly for transit damage and confirm all parts are present.
6. Do not use any parts that appear damaged or broken. If you find damage or missing parts, contact the transit company or TRUX immediately.

DOT/RGB LIGHTING

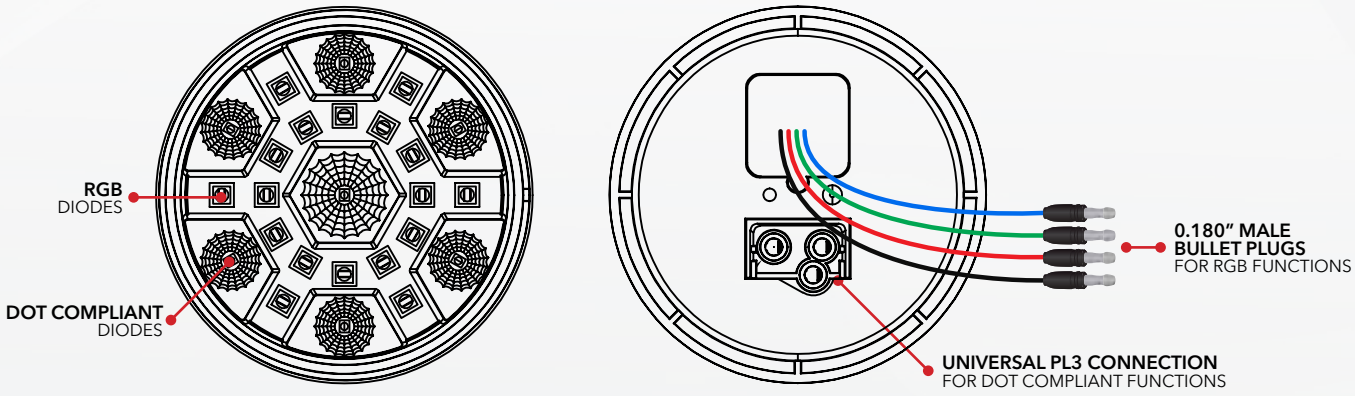
TRUX DUAL-ZONE ARCHITECTURE

Two Systems. One Revolution. Trux Dual-Zone RGB Lights combine cutting-edge style with road-ready performance – the first lighting system in the industry to deliver two independent zones within one seamless unit.

Dual-Zone Architecture: Trux RGB Lights feature two independent lighting systems that work without interference:

- ZONE 1 – DOT/SAE Compliant: Covers all legal road functions – Stop, Tail, Turn, Marker.
- ZONE 2 – RGB Auxiliary: Customizable color effects for off-road, shows, or rest stops.

Trux's pioneering Dual-Zone Architecture delivers a futuristic look, flawless performance, and full legal compliance.



Installation Made Simple and Smart
Each lighting zone comes with its own wiring system for easy, reliable setup:
1. DOT Wiring:
- Connect to your truck's Stop, Tail, Turn, and Marker circuits.
- Uses familiar PL3 plugs, bullet connectors, and standard harnesses for quick integration.

2. RGB Wiring:
- Connect to the Trux RGB Control Box using our new 0.180" bullet plug 4-prong, color-coded harnesses.
- Plug-and-play simplicity ensures every wire aligns perfectly for peak performance.

Tip: Keep wiring for both zones separate to maintain full functionality and prevent signal interference.

SAFETY & COMPLIANCE GUIDE

To ensure safe operation and preserve warranty coverage, please follow these guidelines:
- Use DOT mode only while driving on public roads.
- RGB lighting is for off-road, display, or show use only.
- Do not splice or modify the internal wiring. Each zone is engineered for optimal voltage and isolation.
- Disconnect power before installing or servicing lights.
- Avoid submerging the control box or connectors in water.
- Inspect connections periodically to ensure tight, corrosion-free contacts.

7 LIGHTING SKUs

TLED-RGBRDF
DOUBLE FACE DOT **AMBER/RED** TURN & MARKER
WITH RGB AUXILIARY LED

TLED-RGB4R
4" DOT **RED** STOP, TURN & TAIL
WITH RGB AUXILIARY LED

TLED-RGBBA
3/4" DOT **AMBER** CLEARANCE / MARKER
WITH RGB AUXILIARY LED

TLED-RGBBR
3/4" DOT **RED** CLEARANCE / MARKER
WITH RGB AUXILIARY LED

TLED-RGBWA
WATERMELON DOT **AMBER** CLEARANCE / MARKER
WITH RGB AUXILIARY LED

TLED-RGBWR
WATERMELON DOT **RED** CLEARANCE / MARKER
WITH RGB AUXILIARY LED

TLED-RGBG4A
GENERATION 4 DOT **AMBER** CLEARANCE / MARKER
WITH RGB AUXILIARY LED

WIRING

WIRING GUIDELINES

1. Disconnect Power First:
   - Always disable power before wiring the Signal Light.
2. Use Proper Connections:
   - Use larger wires and tight connections for longer component life.
   - For high-current wiring, use terminal blocks or soldered connections with shrink tubing.
   - Do not use insulation displacement connectors.
3. Protect Wiring:
   - Route wires through grommets with sealant when passing through compartment walls.
   - Use looms, ties, and grommets to secure and protect wiring from heat and moving parts.
   - Avoid splices; fewer splices = less voltage drops and failure risk.
4. Fuse and Breaker Placement:
   - Install fuses/circuit breakers close to the power source.
   - Size them properly to protect both the wiring and devices.
5. Grounding:
   - Ground only to substantial chassis parts, preferably the vehicle battery
6. Heat Sensitivity:
   - High temperatures reduce wire, fuse, and breaker capacity.
   - Circuit breakers may false trip if mounted in hot locations or run near capacity.
7. Additional Recommendations:
   - Apply dielectric grease around all electrical connections exposed to moisture or the ambient environment to help protect them from corrosion and water ingress.
   - All wiring should be a minimum of 18 AWG.
   - Install fuses as required
   - Always use minimum wire sizes and recommendations provided by the manufacturer (where applicable)

WIRING SCHEMATICS

Each DOT/RGB light contains two completely independent lighting systems:

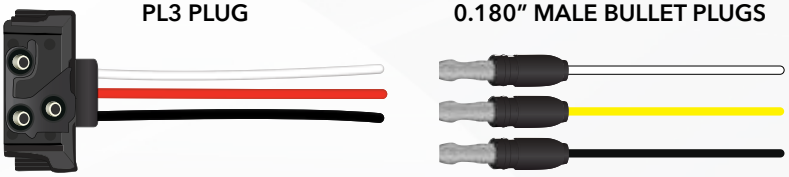
1. **DOT/SAE System** – This is the DOT-compliant system for Stop, Turn, Tail or Marker functions.
2. **RGB System** – This is an auxiliary, non-DOT-compliant system designed for off-road illumination only.
   Note: RGB lighting is not approved for highway use.

Each system has its own ground and power wires.

DOT/SAE LIGHTING SYSTEM PLUGS

Depending on the light model, the DOT/SAE system is powered by one of two connector types:

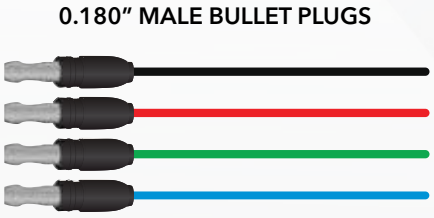
1. **PL3 Plug Option**
   Pin 1: Ground
   Pin 2: Dim (Tail/Marker)
   Pin 3: Bright (Stop/Turn)
2. **Male Bullet Plug Option** (2 or 3 × 0.180" male bullet plugs)
   White: Ground
   Yellow/Black: Dim (Tail/Marker)
   Yellow: Bright (Stop/Turn)



RGB LIGHTING SYSTEM PLUGS

All RGB lights use the same 4 prong 0.180" male bullet plug configuration:

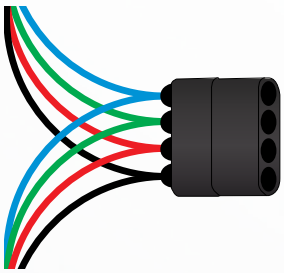
- **Red Wire** -> Red Color
- **Green Wire** -> Green Color
- **Blue Wire** -> Blue Color
- **Black Wire** -> Ground



WIRE HARNESSES

1. **DOT/SAE Wire Harnesses**
   - CONNECTING THE LIGHTING SYSTEM:
     Use any compatible Trux DOT/SAE wire harness to connect the DOT/SAE lighting system to the Trux power system.
   - WIRING CONFIGURATION:
     The DOT wiring should run in parallel with the RGB wiring, similar to the configuration used in the DUAL Revolution product line.
   - POWER CONNECTIONS:
     The DOT/SAE lights connect to the vehicle's DOT lighting power system.
     The RGB lights connect to the RGB Control Box.
   - SYSTEM OVERVIEW:
     This configuration serves as an expanded version of the existing Trux lighting setup, maintaining the same logic and compatibility while supporting both DOT/SAE and RGB functionality.
   - AVAILABLE DOT/SAE HARNESS TYPES INCLUDE:
     - TPIG-3W
     - TPIG-L1 (Superseal)
     - TPIG-L2 (Lock Connector)
     - S-Series
     - D-Series
     - T-Series
     - B612

2. RGB Wire Harness (Color-Coded)
Each female bullet connector is color-coded to match the RGB wire colors from the lights:



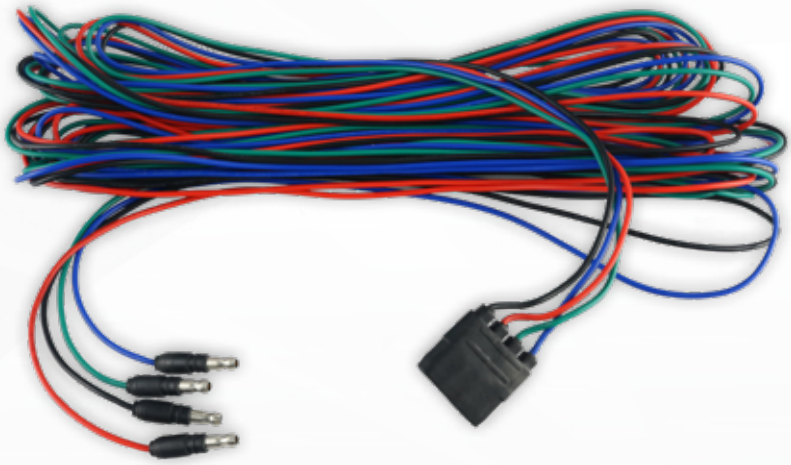
- **Red Female** -> Red Wire
- **Green Female** -> Green Wire
- **Blue Female** -> Blue Wire
- **Black Female** -> Ground Wire

This color-matching system ensures proper connection between each light and the RGB control box, preventing color mismatches and simplifying large installations (up to 100+ lights per control box).
Tip: If any light does not respond to the RGB controller, double-check each wire connection to confirm the color alignment is correct.

SKU	DESCRIPTION
Q604	100ft Wire Harness - 4" Spacing with 300 x 0.180" Female Bullet Connector (4-Pin)
Q608	100ft Wire Harness - 8" Spacing with 150 x 0.180" Female Bullet Connector (4-Pin)
Q612	100ft Wire Harness - 12" Spacing with 100 x 0.180" Female Bullet Connector (4-Pin)

SKU	DESCRIPTION
QH104	Wire Harness - 4" Spacing with 10 x 0.180" Female Bullet Connector (4-Pin)
QH108	Wire Harness - 8" Spacing with 10 x 0.180" Female Bullet Connector (4-Pin)
QH1012	Wire Harness - 12" Spacing with 10 x 0.180" Female Bullet Connector (4-Pin)

RGB EXTENSION CABLES
RGB color-coded extension cables are available to connect distant lighting zones (e.g., rear sleeper, trailer end, roof) to the RGB control box.



Available lengths:

- **10ft Extension Cord (18 Gauge)** - 4 × 0.180" Male Bullet Plugs to a 0.180" Female Bullet Connector (4-Pin)
- **20ft Extension Cord (18 Gauge)** - 4 × 0.180" Male Bullet Plugs to a 0.180" Female Bullet Connector (4-Pin)
- **30ft Extension Cord (18 Gauge)** - 4 × 0.180" Male Bullet Plugs to a 0.180" Female Bullet Connector (4-Pin)

Color-coded for consistency, ensuring all color channels remain aligned throughout the system.

- **Male Plugs** -> Connects to the wire harness that powers the lights
- **Female Plug** -> Connects directly to the male bullet prongs on the RGB Control Box

SKU	DESCRIPTION
QE10	10ft Extension Cord (18 Gauge) - 4 x 0.180" Male Bullet Plugs to 0.180" Female Bullet Connector (4-Pin)
QE20	20ft Extension Cord (18 Gauge) - 4 x 0.180" Male Bullet Plugs to 0.180" Female Bullet Connector (4-Pin)
QE30	30ft Extension Cord (18 Gauge) - 4 x 0.180" Male Bullet Plugs to 0.180" Female Bullet Connector (4-Pin)

MAXIMUM RECOMMENDED LOAD FOR 18 AWG TAIL-LIGHT CIRCUIT (12.8 V SYSTEMS)
To maintain full illumination and limit voltage drop to 5% or less the maximum continuous load on these 18 AWG conductors should be:

- **10ft run: up to 5.0 Amps**
- **20ft run: up to 2.5 Amps**
- **30ft run: up to 1.5 Amps**

This ensures proper brightness and consistent performance for RGB, tail, marker, stop and signal-light applications.

WIRING & RGB CONTROL BOX

FUSE PROTECTION
Protect this circuit with an appropriately sized fuse installed at the power source.
Recommended fuse: 3A or 5A

- **3A Fuse –** Ideal for dedicated signal or tail-lamp circuits
- **5A Fuse –** Suitable when powering multiple low-current lights or when brief inrush current may occur.
- Do not exceed a 5A fuse rating for this 18 AWG wiring.

ADDITIONAL NOTES

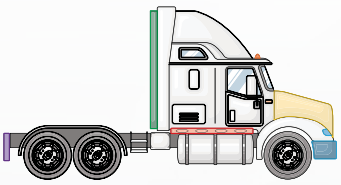
- When using a chassis ground instead of a dedicated return wire, total circuit resistance is reduced and loads up to 2–3 A may operate normally; however, the limits above should be followed for universal installations.
- Always protect wires from abrasion, heat, and movement along a Class 8 truck frame.
- Ensure all connections are weather-sealed and corrosion-resistant.

RGB CONTROL BOX

CONNECT **100+** COMPATIBLE RGB LEDS
& CONTROL WITH REMOTE OR SMARTPHONE APP

MULTI-ZONE TECHNOLOGY
CONTROL UP TO 8 LIGHT ZONES

- REAR CHASSIS
- ROOF
- CAB/SLEEPER PANEL
- AIR CLEANER/FENDER
- HEADLIGHTS/FRONT BUMPER
- REAR CAB/SLEEPER



ENDLESS **COLOR** OPTIONS
WITH MUSIC/PATTERN EFFECTS

REMOTE CONTROL*
*INCLUDED

- 16 PRESENT COLORS
- FLASH FUNCTION
- STROBE FUNCTION
- FADE FUNCTION
- SMOOTH FUNCTION
- LAST PATTERN RECALL

SMARTPHONE APP

- IOS/ANDROID COMPATIBLE
- COLOR FUNCTION
- PATTERN FUNCTION
- MUSIC RHYTHM FUNCTION
- SCHEDULE FUNCTION
- LAST PATTERN RECALL

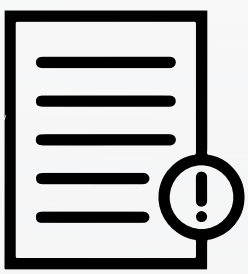
FUNCTION OVERVIEW:

The Trux RGB Control Box powers and syncs your entire lighting setup. Connect all RGB lights and control effects in real time with the Trux RGB App or included remote. The front IR sensor instantly responds to commands, syncing over 100+ lights with solid colors, fades, strobes, patterns, or music-reactive effects.

RGB CONTROL KIT (TU-1088) INCLUDES:

Trux's RGB Control Power Box

Remote Control
(Battery Not Included)



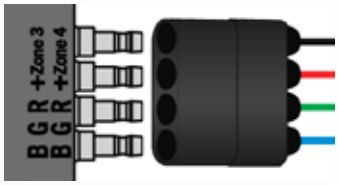
Install Guide

RGB CONTROL BOX SETUP

SETUP

CONNECTING ALL RGB LIGHTS

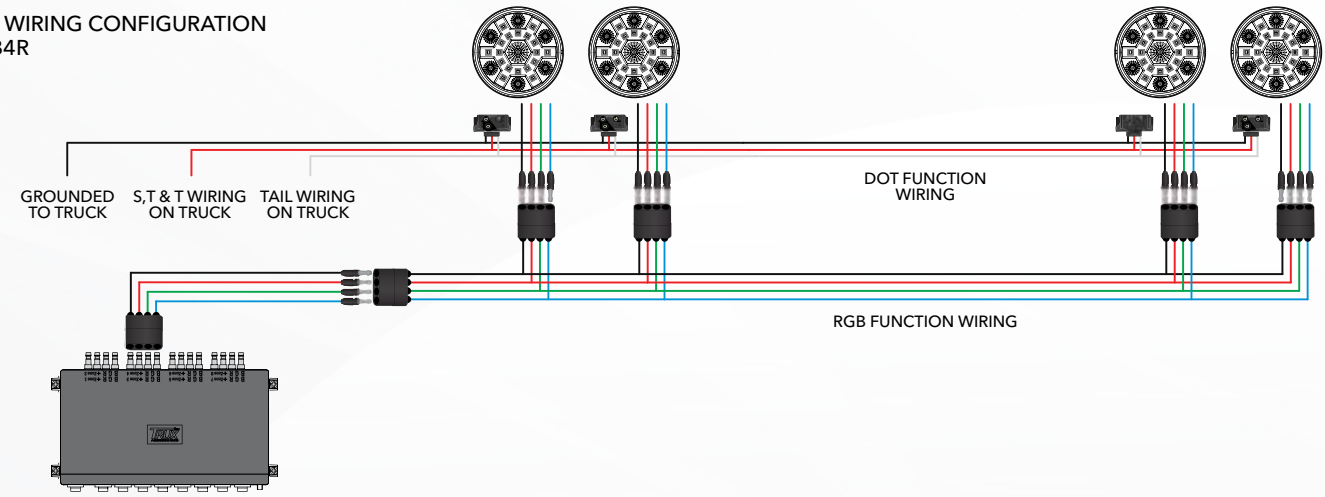
1. Connect the RGB Light Outputs
   - Attach the RGB wire output of each light to the corresponding 4-color-coded wire harness or extension.
   - Plug the harness or extension into the designated zone input port on the control box.
2. Match Color-Coded Connections
   - Whether using harnesses or extensions, connect the 4 female 0.180" color-coded bullet connectors to the matching male 0.180" color-coded inputs in each zone.
   - Verify that each color from the wire harness (or extension) matches the same color on the control box.
     - Each male bullet plug on the control box is labeled with a letter corresponding to a specific color. Ensure that each color is connected to its matching label.



NOTE: *The Ground (black wire) connects to the **"+" port**, as the RGB system uses a **positive (+) ground**, whereas the DOT system uses a **negative (-) ground.***

   - Secure all connections.
     - Double-check that all plugs are firmly inserted and secure before powering on the system.
   - Protective Covers
     - Protective covers have been included for all unused male bullet plugs. This safety measure ensures that no exposed male connectors from the control box are left uncovered, preventing potential sparks or short circuits
   - Troubleshooting RGB Signal Issues
     - If no RGB signal is detected, confirm that all colored bullet plugs are properly aligned and fully connected between the lights, the harnesses, and the control box.

EXAMPLE WIRING CONFIGURATION
TLED-RGB4R



POWER ON THE SYSTEM

1. Locate the red and black bare wires extending from the back of the control box – these supply power to the unit.
   - Connect the wires to the vehicle's power source as follows:
     - **Red Wire (+):** Connect to the positive terminal.
     - **Black Wire (–):** Connect to the ground (negative) terminal
   - Plug the harness or extension into the designated zone input port on the control box.

   NOTE: *Ensure all connections are secure and properly insulated before powering on the system.*
2. Use the master power switch on the front panel to turn the system on or off.

IMPORTANT The wire gauge coming from the vehicle to the control box should minimum 13AWG.

POWER & AMPERAGE

1. Each zone can handle up to 10 Amps of lighting
2. The entire control box can handle up to 16.5 Amps

CONTROL OPTIONS

1. App Control:
   - Connect to the control box using the Trux RGB App for full customization. See Application section for more details.
2. Remote Control:
   - Use the included Remote Control for quick access to preset colors, patterns & functions. See Remote Control section for more details.

INFRARED SENSOR ALIGNMENT

1. Make sure the built-in Infrared Sensor (located on the front of the control box) has a clear line of sight to your smartphone or remote.

RGB CONTROL BOX

LIGHTING CONTROL & CUSTOMIZATION

1. The control box supports up to 100+ synchronized RGB lights.
2. You can select 1000+ RGB combinations, including:
   - Solid Colors
   - Dynamic Patterns
   - Fades & Strobes
   - Music Rhythm Effects

MULTI-ZONE RGB CUSTOMIZATION

There are 8 zones that can be controlled independently.

- Rear Chassis
- Roof
- Cab and/or Sleeper Panel
- Air Cleaner and/or Fender
- Headlights and/or Front Bumper
- Rear Cab and/or Sleeper

RGB Function

- The RGB function, selected via the Remote Control or the Smartphone Application, runs system-wide
- The driver controls which zones display it by powering them on or off via switches.
  - Example: Powering only the Roof and Air Cleaners (Driver & Passenger) limits the RGB effect to those 3 Zones.

Tip: *Refer to the included Multi-Zone Diagrams for sample configurations & setup ideas.*

CONTROL OPTIONS

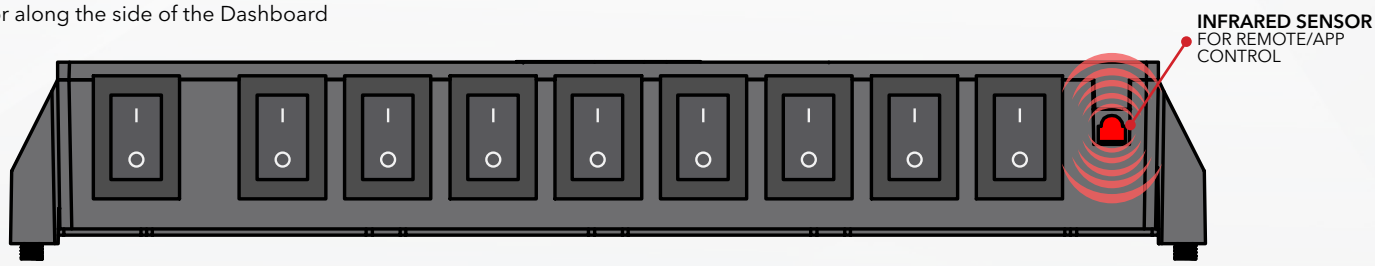
1. Activate zones individually.
2. Sync multiple zones for a coordinated lighting effect.
3. A master power switch on the front panel allows you to turn the entire system on or off with a single press.

MOUNTING INSTRUCTIONS

1. The RGB Control Box must be mounted inside the vehicle cab & should meet the following conditions:
   - The power buttons and IR receiver must remain fully visible and easily accessible.
   - The mounting location must be protected from moisture, excessive vibration, and direct heat sources.
   - Mounting outside the cab will also obstruct the IR receiver, preventing proper operation via the remote or mobile app.
2. For Mounting, the RGB Control Box has:
   - Mounting Holes on all 4 corners for flexible installation.
   - 3M Double-Sided Tape
3. Recommended Mounting Locations include:
   - Inside the Cab
   - Under or along the side of the Dashboard

IMPORTANT

Do NOT mount the control box inside the engine bay or anywhere between the firewall.
The unit is not ingress-protected; with nine exposed power buttons, it is vulnerable to splashing road water.



INSTALLATION REQUIREMENTS

1. Infrared Receiver Accessibility
   - Mount the control box where the IR receiver has a clear, unobstructed line of sight.
   - This ensures reliable operation with both the App and Remote Control.
     Tip: *Before finalizing installation, test signal reception from various angles using the remote or smartphone app.*
2. Main Power Button Accessibility
   - Ensure the main power button remains easily reachable after installation for safe & immediate access.

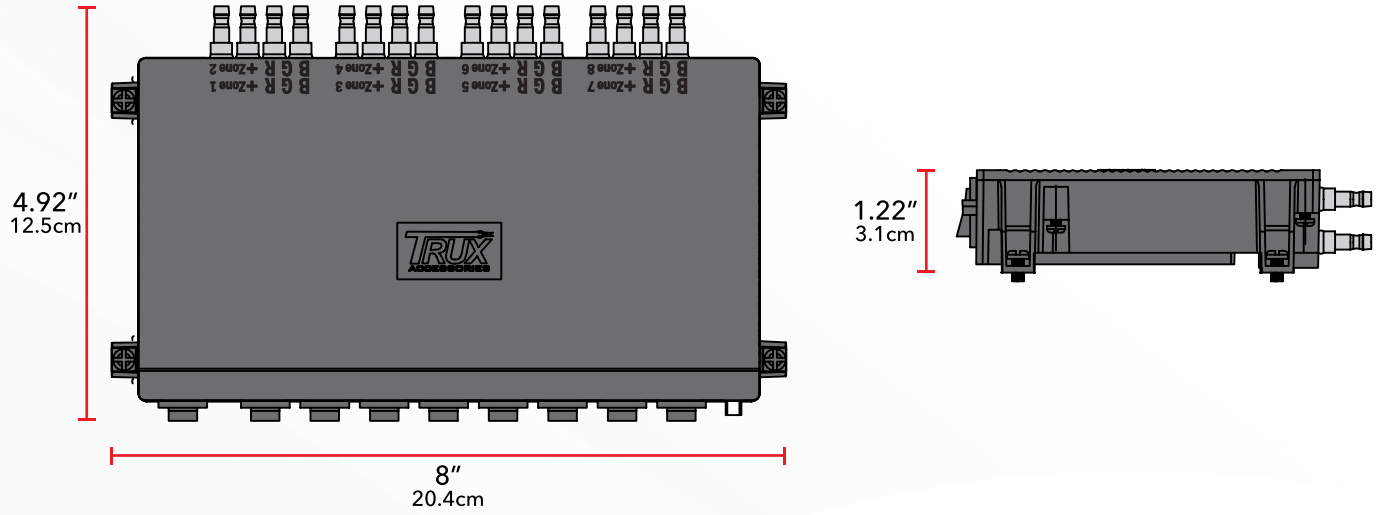
FINAL CHECK

1. Confirm all connections are tight.
2. Verify power to each zone.
3. Test control through both the App and Remote Control.

FINAL SAFETY CHECKLIST:

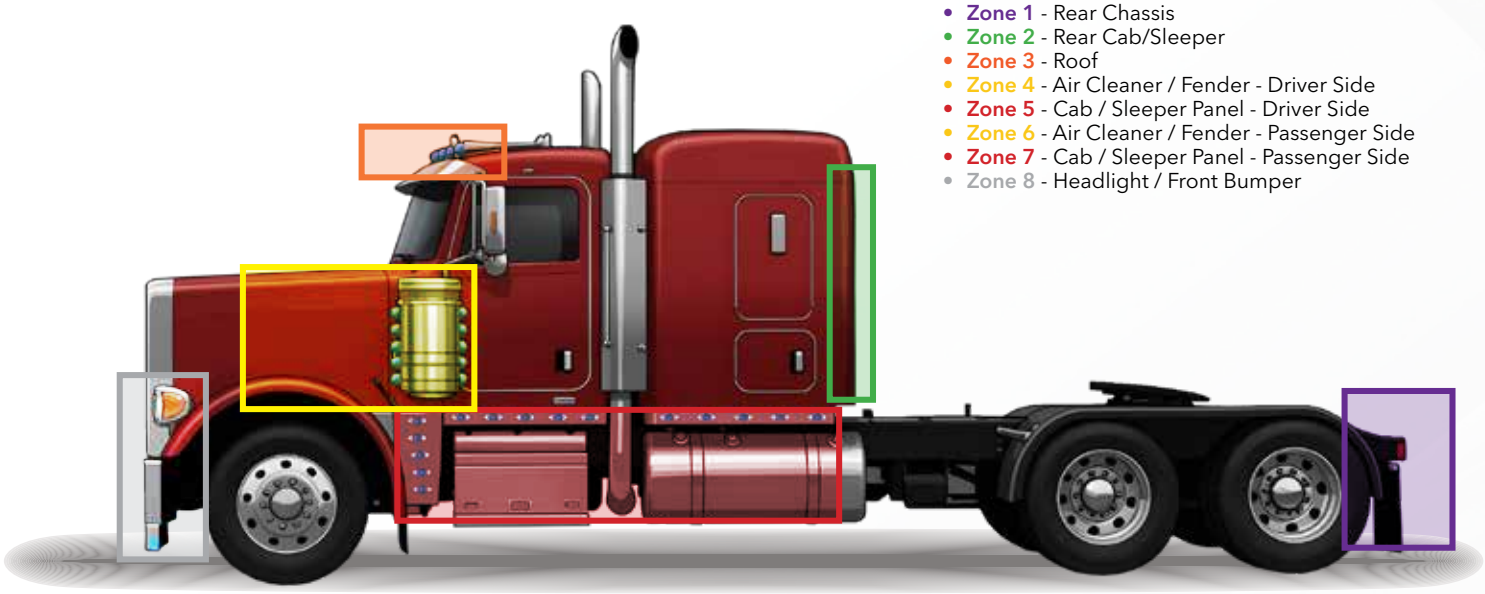
- All wiring connections are secure and insulated
- IR sensor is visible from the operating position
- Main power switch is accessible
- Control box is mounted in a dry, heat-protected area
- Remote and app successfully communicate with the box
- Male Bullet Plug Protective Covers have been added to all unused zones

CONTROL BOX DIAGRAM



MULTI-ZONE CONFIGURATION

EXAMPLE TRUCK ZONE CONFIGURATION



- Zone 1 - Rear Chassis
- Zone 2 - Rear Cab/Sleeper
- Zone 3 - Roof
- Zone 4 - Air Cleaner / Fender - Driver Side
- Zone 5 - Cab / Sleeper Panel - Driver Side
- Zone 6 - Air Cleaner / Fender - Passenger Side
- Zone 7 - Cab / Sleeper Panel - Passenger Side
- Zone 8 - Headlight / Front Bumper

ZONE	SKU	DESCRIPTION	QTY.
1	TLED-RGBWR	Watermelon DOT Red Clearance / Marker to RGB Auxiliary LED	12

ZONE	SKU	DESCRIPTION	QTY.
2	TLED-RGBWR	Watermelon DOT Red Stop, Turn & Tail to RGB Auxiliary LED	5

ZONE	SKU	DESCRIPTION	QTY.
3	TLED-RGBWA	Watermelon DOT Amber Clearance / Marker to RGB Auxiliary LED	5

ZONE	SKU	DESCRIPTION	QTY.
4	TLED-RGBWA	Watermelon DOT Amber Clearance / Marker to RGB Auxiliary LED	5
4	TLED-RGBWR	Watermelon DOT Red Clearance / Marker to RGB Auxiliary LED	3

ZONE	SKU	DESCRIPTION	QTY.
5	TLED-RGBG4A	Generation 4 DOT Amber Clearance / Marker with RGB Auxiliary LED	15

ZONE	SKU	DESCRIPTION	QTY.
6	TLED-RGBWA	Watermelon DOT Amber Clearance / Marker to RGB Auxiliary LED	5
6	TLED-RGBWR	Watermelon DOT Red Clearance / Marker to RGB Auxiliary LED	3

ZONE	SKU	DESCRIPTION	QTY.
7	TLED-RGBG4A	Generation 4 DOT Amber Clearance / Marker with RGB Auxiliary LED	15

ZONE	SKU	DESCRIPTION	QTY.
8	TLED-RGBWA	Watermelon DOT Amber Clearance / Marker to RGB Auxiliary LED	2

ZONE	AREA	APPLICABLE LED TYPES	QTY.	SKU	DESCRIPTION	AMP PER LED	TOTAL AMPS (LED)	TOTAL AMPS (ZONE)
1	Rear Chassis	4" / Watermelon / 3/4"	12	TLED-RGBWR	Watermelon DOT Red Clearance / Marker to RGB Auxiliary LED	100mA	1200mA	1200mA
2	Rear Cab / Sleeper	4" / Watermelon	5	TLED-RGBWR	Watermelon DOT Red Clearance Marker to RGB Auxiliary LED	100mA	500mA	500mA
3	Roof	Watermelon	5	TLED-RGBWA	Watermelon DOT Amber Clearance/ Marker to RGB Auxiliary LED	100mA	500mA	500mA
4	Air Cleaner / Fender - Driver Side	3/4" / Double Face / / Watermelon	5	TLED-RGBWR	Watermelon DOT Red Clearance / Marker to RGB Auxiliary LED	100mA	300mA	800mA
			5	TLED-RGBWA	Watermelon DOT Amber Clearance / Marker to RGB Auxiliary LED	100mA	500mA	
5	Cab / Sleeper Panel - Driver Side	3/4" / G4	15	TLED-RGBG4A	Generation 4 DOT Amber Marker to RGB Auxiliary LED	75mA	1125mA	1125mA
6	Air Cleaner / Fender - Driver Side	3/4" / Double Face / / Watermelon	5	TLED-RGBWR	Watermelon DOT Red Clearance / Marker to RGB Auxiliary LED	100mA	300mA	800mA
			5	TLED-RGBWA	Watermelon DOT Amber Clearance / Marker to RGB Auxiliary LED	100mA	500mA	
7	Cab / Sleeper Panel - Driver Side	3/4" / G4	15	TLED-RGBG4A	Generation 4 DOT Amber Marker to RGB Auxiliary LED	75mA	1125mA	1125mA
8	Headlight / Front Bumper	3/4" / Watermelon	2	TLED-RGBWA	Watermelon DOT Red Clearance / Marker to RGB Auxiliary LED	100mA	200mA	200mA
		TOTAL LEDs	60				TOTAL AMPS	6250mA / 6.25A

Each zone can handle up to 10 Amps of lighting
The entire control box can handle up to 16.5 Amps

RGB LED AMPERAGES

RGB LED AMPERAGES:
The RGB Control Box is designed to safely manage a total electrical load of up to 16.5 Amps, with each individual zone limited to a maximum of 10 Amps. Exceeding either the overall system limit or the per-zone limit may result in overheating, equipment damage, or potential safety hazards.

To ensure proper operation and extend the life of the system, all connected devices and configurations must remain within both the 16.5 Amp total rating and the 10 Amp per-zone rating. Always verify the total and per-zone current draw before use to prevent overloading the RGB Control Box.

The table below shows the amperage specifications for each RGB light.

	SKU	DESCRIPTION	AMPERAGE @ 12V
	TLED-RGBWR	Watermelon DOT Red Clearance / Marker to RGB Auxiliary LED	100mA
	TLED-RGBWA	Watermelon DOT Amber Clearance / Marker to RGB Auxiliary LED	100mA
	TLED-RGBG4A	Generation 4 DOT Amber Marker to RGB Auxiliary LED	75mA
	TLED-RGBRDF	Double Face DOT Red Clearance / Marker to RGB Auxiliary LED	400mA
	TLED-RGBBA	3/4" DOT Amber Clearance / Marker to RGB Auxiliary LED	60mA
	TLED-RGBBR	3/4" DOT Red Clearance / Marker to RGB Auxiliary LED	60mA
	TLED-RGB4R	4" DOT Red Stop, Turn & Tail to RGB Auxiliary LED	150mA

APP SETUP & CONTROL

APPLICATION SETUP

SMARTPHONE APPLICATION INSTALLATION:

1. Download the "duoCo Strip" app by scanning the QR code below (follow the on-screen instructions to download and install the app from your smartphone's app store).
   OR
   Search for "duoCo Strip" in your smartphone's app store and tap on the app to install.

duoCo Strip Application

Scan QR Code using your Smartphone Camera

2. Ensure all wiring connections between the RGB system and the wire harnesses are securely connected as per the instructions above.
3. Launch the "duoCo Strip" app on your smartphone. When prompted, grant the app permission to "Find and Connect Devices on your local network" and enable Bluetooth.
   NOTE: A window may appear requesting permission for the app to access Bluetooth. To proceed, tap "OK."
4. Turn on the RGB System.
5. In the "duoCo Strip" app, tap on the "Group Manage +" button located in the top left corner of the main page. Refresh the "My Devices" section until you see "BLEDOM" listed, indicating the RGB system has been successfully added to the app.
   Once the RGB Star LEDs are detected, verify the icon next to "BLEDOM":

NOTE: The device will be automatically added after it is searched

If it shows a broken "chain" icon like above, press on it again to establish a connection.

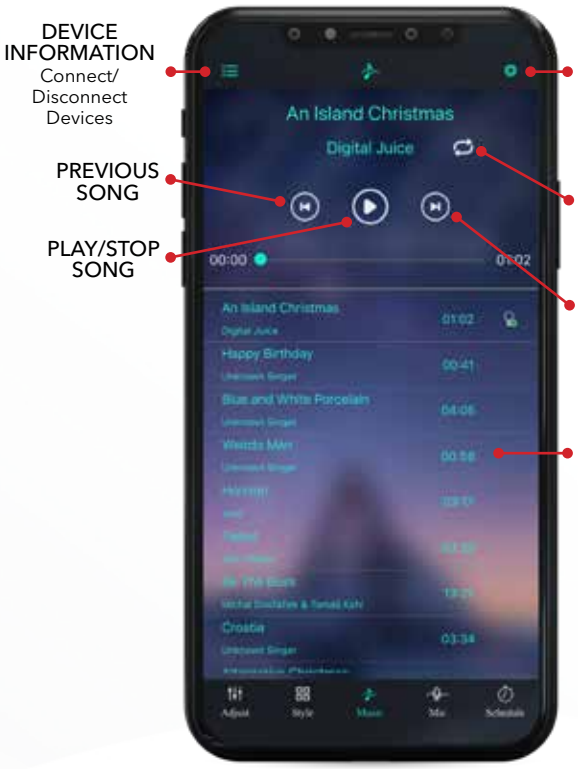
If it shows a "chain" icon like above, it is connected, you'll be able to control the RGB system using the app.

APPLICATION FUNCTIONS:

After successfully pairing with the RGB System, explore the various functions of the "duoCo Strip" App as shown below. For detailed operating instructions, enter the "Settings" menu and click on "Guide".

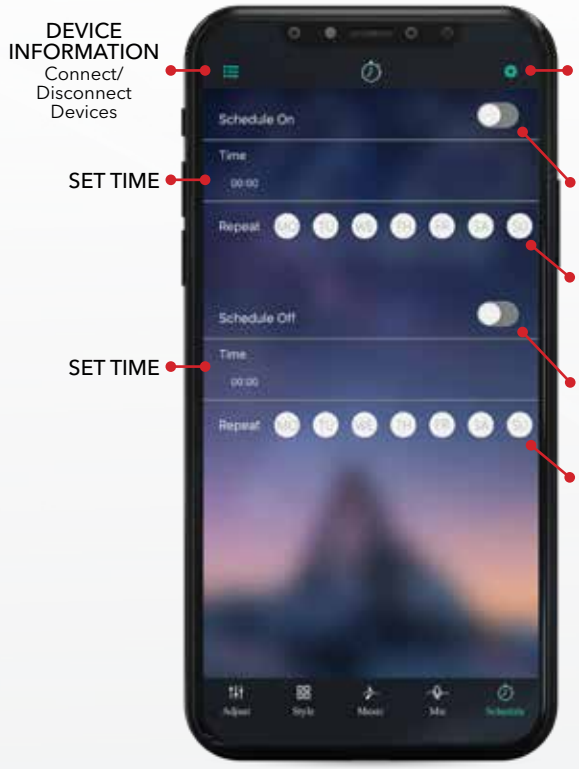
STYLE FUNCTION:
Choose from up to 28 preset styles, including “Static,” “Strobe,” “Cross Fade,” and “Gradual Change.”

MUSIC FUNCTION:
The RGB system syncs the LEDs to the rhythm of the music detected through the smartphone app. The app automatically adds compatible music files to the playlist.



MICROPHONE FUNCTION:
The RGB system syncs the LEDs to the audio input captured by the smartphone’s microphone. The audio input can be switched between the Mobile’s Microphone and external Microphone.

SCHEDULE FUNCTION:
Schedule the RGB lights to turn on or off at specific times and on selected days.



REMOTE CONTROL

You can utilize the Remote Control even when the RGB Star LEDs are connected to the "duoCo Strip" App.
Explore the various functions of the Remote Control as shown below.
NOTE: The Remote Control features "Last Color/Function Recall" for all functions: when the power is turned on, the previous Color or function reappears automatically.

BRIGHTNESS ADJUSTMENT
(10 Brightness Levels)

RGB PRESET COLORS
(15 Present Colors)

3 COLOR SELECTION FUNCTION
Press the "W" Button to cycle through a selection of 3 Colors:
White, Amber, Warm White

FLASH FUNCTION
7 Color Transition Effect that cycles through:
Green, Blue, Amber, Cyan, Pink, Lilac and Red

STROBE FUNCTION
7 Color Strobe Effect that cycles through:
Green, Blue, Amber, Cyan, Pink, Lilac and Red

FADE FUNCTION
7 Color Fade On/Off Effect that cycles through:
Green, Blue, Amber, Cyan, Pink, Lilac and Red

SMOOTH FUNCTION
7 Color Smooth Fade Effect that cycles through:
Green, Blue, Amber, Cyan, Pink, Lilac and Red

Warranty:
YOURTRUCKSHOP INC. ("TRUX") warrants that for a period of [thirty six (36) months] from the date of purchase of the Product from TRUX or its distributor (the "Warranty Period"), such Product is fit for ordinary use and free from hidden defect, and will materially conform to TRUX's published specifications in effect as of the date of such purchase (the "Warranty").

THE WARRANTY DOES NOT COVER PRODUCTS WHERE THE PRODUCTS (A) HAVE BEEN SUBJECTED TO ABUSE, MISUSE, TAMPERING NEGLIGENCE OR FAULT, ACCIDENT, IMPROPER TESTING, IMPROPER INSTALLATION, IMPROPER STORAGE, IMPROPER HANDLING, ABNORMAL PHYSICAL STRESS, ABNORMAL ENVIRONMENTAL CONDITIONS, IMPROPER INSTALLATION OR OPERATION OR USE CONTRARY TO ANY INSTRUCTIONS ISSUED BY TRUX; (B) HAVE BEEN RECONSTRUCTED, REPAIRED, OR ALTERED BY PERSONS OTHER THAN TRUX OR ITS AUTHORIZED REPRESENTATIVES; OR (C) HAVE NOT BEEN MAINTAINED IN ACCORDANCE WITH THE MAINTENANCE PROCEDURES SET FORTH IN TRUX'S WIRING DIAGRAM, PRODUCT SPECIFICATIONS AND INSTALLATION GUIDE.

All warranty/return claims must be requested through our authorized TRUX Distributor. TRUX will only process claims from an authorized TRUX Distributor. For more information on the warranty/return policy, please contact your TRUX Distributor.

Exclusion of Other Warranties:

Notice to Québec Consumers

Notwithstanding the below, the Consumer Protection Act (Québec) gives Consumers (as defined in said Act) the following legal warranty on all goods they purchase or lease from a merchant or manufacturer. The goods must be:
- Fit for the purposes for which they are ordinarily used; and
- Durable in normal use for a reasonable length of time, which may vary according to the price paid, the terms of the contract and the conditions of use.

EXCEPT FOR THE EXPRESS WARRANTIES SET FORTH ABOVE IN "WARRANTY", TRUX MAKES NO WARRANTY WHATSOEVER WITH RESPECT TO THE PRODUCTS, INCLUDING ANY (A) WARRANTY OR CONDITION OF MERCHANTABILITY; (B) WARRANTY OR CONDITION OF FITNESS FOR A PARTICULAR PURPOSE; OR (C) WARRANTY OR CONDITION OF QUALITY OR OF NO LATENT DEFECTS, WHETHER EXPRESS OR IMPLIED BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE, OR OTHERWISE. BUYER ACKNOWLEDGES THAT IT HAS NOT RELIED UPON ANY REPRESENTATION, CONDITION OR WARRANTY MADE BY TRUX, OR ANY OTHER PERSON ON TRUX'S BEHALF.

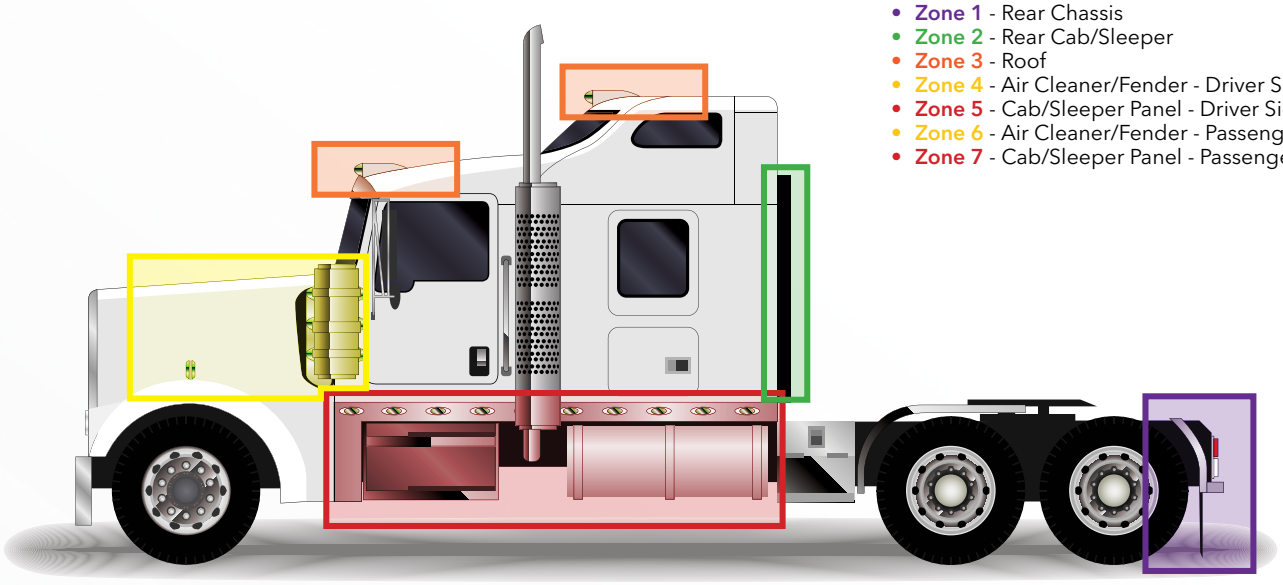
Remedies and Limitation of Liability:
TRUX'S SOLE LIABILITY AND BUYER'S EXCLUSIVE REMEDY IN CONTRACT, TORT (INCLUDING NEGLIGENCE AND FAULT), OR UNDER ANY OTHER THEORY AGAINST TRUX REGARDING THE PRODUCT AND ITS USE SHALL BE, AT TRUX'S DISCRETION, EITHER THE REPLACEMENT OR REPAIR OF THE PRODUCT, OR THE REFUND OF THE PURCHASE PRICE IN FULL. IN NO EVENT SHALL TRUX'S LIABILITY ARISING OUT OF THIS WARRANTY OR ANY OTHER CLAIM RELATED TO THE TRUX'S PRODUCT EXCEED THE AMOUNT PAID FOR THE PRODUCT BY BUYER. IN NO EVENT SHALL TRUX BE LIABLE FOR LOST PROFITS, THE COST OF SUBSTITUTE EQUIPMENT OR LABOUR, PROPERTY DAMAGE, OR SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES BASED UPON ANY CLAIM FOR BREACH OF CONTRACT, IMPROPER INSTALLATION, NEGLIGENCE, FAULT OR OTHER CLAIM, EVEN IF TRUX OR A REPRESENTATIVE OF TRUX HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. TRUX SHALL HAVE NO FURTHER OBLIGATION OR LIABILITY WITH RESPECT TO THE PRODUCT OR ITS SALE, OPERATION AND USE, AND TRUX NEITHER ASSUMES NOR AUTHORIZES THE ASSUMPTION OF ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH SUCH PRODUCT.

Governing Law:
IF YOU ARE A CONSUMER (AS DEFINED IN THE QUÉBEC CONSUMER PROTECTION ACT) RESIDENT IN QUÉBEC, THIS WARRANTY AND ALL RELATED DOCUMENTS ARE GOVERNED BY THE LAWS OF THE PROVINCE OF QUÉBEC AND THE LAWS OF CANADA APPLICABLE THEREIN.

Except to the extent required by any applicable consumer protection legislation, this Warranty and all related documents are governed by the laws of the Province of Ontario and the laws of Canada applicable therein. Additionally, you may have other legal rights which vary from jurisdiction to jurisdiction. To the extent that the consumer protection legislation in your province or territory take precedence over the present Warranty ("Governing Law"), your rights will be determined by the Governing Law applicable to you.

BACK COVER

EXAMPLE TRUCK ZONE CONFIGURATION #2



- Zone 1 - Rear Chassis
- Zone 2 - Rear Cab/Sleeper
- Zone 3 - Roof
- Zone 4 - Air Cleaner/Fender - Driver Side
- Zone 5 - Cab/Sleeper Panel - Driver Side
- Zone 6 - Air Cleaner/Fender - Passenger Side
- Zone 7 - Cab/Sleeper Panel - Passenger Side

ZONE	SKU	DESCRIPTION	QTY.
1	TLED-RGB4R	4" DOT Red Stop, Turn & Tail to RGB Auxiliary LED	4

ZONE	SKU	DESCRIPTION	QTY.
2	TLED-RGB4R	4" DOT Red Stop, Turn & Tail to RGB Auxiliary LED	6

ZONE	SKU	DESCRIPTION	QTY.
3	TLED-RGBWA	Watermelon DOT Amber Clearance/Marker to RGB Auxiliary LED	5

ZONE	SKU	DESCRIPTION	QTY.
4	TLED-RGBWA	Watermelon DOT Amber Clearance / Marker to RGB Auxiliary LED	3
4	TLED-RGBWR	Watermelon DOT Red Clearance / Marker to RGB Auxiliary LED	3
6	TLED-RGBRDF	Double Face DOT Red Clearance / Marker to RGB Auxiliary LED	1

ZONE	SKU	DESCRIPTION	QTY.
5	TLED-RGBG4A	Generation 4 DOT Amber Marker to RGB Auxiliary LED	9

ZONE	SKU	DESCRIPTION	QTY.
6	TLED-RGBWA	Watermelon DOT Amber Clearance Marker to RGB Auxiliary LED	3
6	TLED-RGBWR	Watermelon DOT Red Clearance / Marker to RGB Auxiliary LED	3
6	TLED-RGBRDF	Double Face DOT Red Clearance / Marker to RGB Auxiliary LED	1

ZONE	SKU	DESCRIPTION	QTY.
7	TLED-RGBG4A	Generation 4 DOT Amber Marker to RGB Auxiliary LED	9

ZONE	AREA	APPLICABLE LED TYPES	QTY.	SKU	DESCRIPTION	AMP PER LED	TOTAL AMPS (LED)	TOTAL AMPS (ZONE)
1	Rear Chassis	4" / Watermelon / 3/4"	4	TLED-RGB4R	4" DOT Red Stop, Turn & Tail to RGB Auxiliary LED	150mA	600mA	600mA
2	Rear Cab/Sleeper	4" / Watermelon	6	TLED-RGB4R	4" DOT Red Stop, Turn & Tail to RGB Auxiliary LED	150mA	900mA	900mA
3	Roof	Watermelon	10	TLED-RGBWA	Watermelon DOT Amber Clearance / Marker to RGB Auxiliary LED	100mA	1000mA	1000mA
4	Air Cleaner/Fender - Driver Side	3/4" / Double Face / / Watermelon	3	TLED-RGBWR	Watermelon DOT Red Clearance / Marker to RGB Auxiliary LED	100mA	300mA	1200mA
			3	TLED-RGBWA	Watermelon DOT Amber Clearance / Marker to RGB Auxiliary LED	100mA	300mA	
			1	TLED-RGBRDF	Double Face DOT Red Clearance / Marker to RGB Auxiliary LED	400mA	400mA	
5	Cab/Sleeper Panel - Driver Side	3/4" / G4	9	TLED-RGBG4A	Generation 4 DOT Amber Marker to RGB Auxiliary LED	75mA	675mA	675mA
6	Air Cleaner/Fender - Driver Side	3/4" / Double Face / / Watermelon	3	TLED-RGBWR	Watermelon DOT Amber Clearance / Marker to RGB Auxiliary LED	100mA	300mA	1200mA
			3	TLED-RGBWA	Watermelon DOT Amber Clearance / Marker to RGB Auxiliary LED	100mA	300mA	
			1	TLED-RGBRDF	Double Face DOT Red Clearance / Marker to RGB Auxiliary LED	400mA	400mA	
7	Cab/Sleeper Panel - Driver Side	3/4" / G4	9	TLED-RGBG4A	Generation 4 DOT Amber Marker to RGB Auxiliary LED	75mA	675mA	675mA
		TOTAL LEDs	54				TOTAL AMPS	6250mA / 6.25A

Each zone can handle up to 10 Amps of lighting
The entire control box can handle up to 16.5 Amps