LYNX L6-6 LED WARNING LIGHT

PROFESSIONAL INSTALLATION MANUAL

IMPORTANT NOTICE

This manual applies only to the Lynx L6-6 LED Warning Light. Installation and control information below is based on the supplied Lynx L6-6 wiring schematic and product image.

This warning device is intended to improve vehicle visibility. The use of warning lighting does not guarantee that other motorists or pedestrians will see or react to the signal. The operator remains responsible for safe vehicle operation at all times.

Improper installation, incorrect wiring, or unsecured mounting may result in reduced performance, product damage, vehicle damage, or personal injury.

WARNINGS AND NOTICES FOR USERS AND INSTALLERS

- Read this manual fully before installation and use.
- Inspect and bench-test the unit before final installation.
- Do not operate the unit with exposed or unprotected wiring.
- Route all wiring away from sharp edges, heat sources, and moving components.
- Do not install wiring or controls in airbag or SRS deployment zones.
- Do not assume warning lighting grants right of way.

SAFETY WARNINGS

- Do NOT look directly into illuminated LEDs at close range.
- Disconnect vehicle power before making or changing wiring connections.
- Use a 10 A fuse for one Lynx L6-6. For hardwiring, purchase the fuse and suitable holder separately.
- Do not open or modify the light housing.
- Secure all wiring with loom, grommets, and cable ties where appropriate.
- Confirm that the selected light color and operating mode comply with applicable laws before use.

NOTICE LIABILITY

Manufacturer assumes no liability for improper installation, incorrect wiring, misuse, or operation that does not comply with applicable law.

The user and installer are responsible for proper mounting, correct wiring, safe operation, and legal compliance.

LEGAL COMPLIANCE

Before operating this light, confirm that the selected color and flash pattern comply with your local and state laws. Visit the State Statutes Knowledge Base for complete details.

MAINTENANCE

- Clean the lens with water and a soft cloth only.
- Do not use pressure washers, harsh solvents, or abrasive cleaners.
- Inspect wiring and mounting security regularly.
- Test all operating functions before each use where practical.

LYNX L6-6 LED WARNING LIGHT



PRODUCT OVERVIEW

Item	Specification
Model	Lynx L6-6
Product Type	Compact LED warning light
Dimensions	27" x 2" x 1.5"
Weight	3.4 lbs
LED Count	36 LEDs
LED Rating	Generation V 3-Watt LEDs
Lens Type	Linear / 120 degrees
Flash Patterns	36
Memory	Dual Memory with 2 saved patterns
Current Draw at 12V	1 A flashing / 5 A steady-on
IP Rating	IP67 heads and housing; optional circuit-board waterproofing required for exterior use
Power Input	12V DC nominal / 12-18V DC operating range
Power Connection	Hardwire standard; cigarette-lighter plug sold separately
Control Leads	Mode, Memory 1, Memory 2, SYNC
Ground	GND lead
Synchronization	SYNC lead for compatible multi-unit operation

KEY FEATURES

- 6-head LED warning-light design
- Dedicated Mode control lead
- Two separate memory control leads
- Synchronization control lead
- 12V power input with dedicated ground

INCLUDED / CONNECTION COMPONENTS

- Lynx L6-6 LED Warning Light
- Attached wiring harness with 10-foot, 14 AWG power cable
- Optional cigarette-lighter plug sold separately, with Dual Memory switch, pattern button and fuse

PRE-INSTALLATION AND BENCH TESTING

1. Inspect the housing, lenses, cable, and harness for shipping or handling damage.
2. Confirm the harness connector is fully seated before applying power.
3. Connect GND and +12V to a suitable protected 12V DC source.
4. Verify the unit powers on through the fused hardwire connection or optional cigarette-lighter plug.
5. Verify Mode, Memory 1, Memory 2, and SYNC functions with the intended control setup before final installation.
6. Plan mounting and wire routing before securing the unit to the vehicle.

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WIRING / CONTROL INFORMATION

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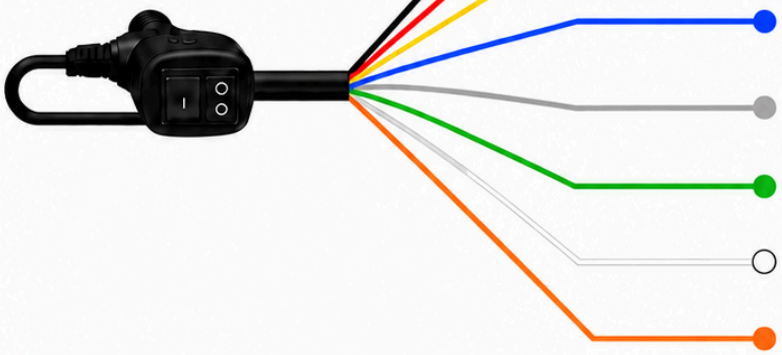
WIRING / CONTROL INFORMATION

WIRING DIAGRAM



- **GND (Black)** — Connect to vehicle chassis ground (–)
- **+12V (Red)** — Connect to 12–24V DC positive (+)
- **MODE (Yellow)** — Momentary trigger to change flash pattern (Active High)
- **ALT (Blue)** — Momentary trigger for alternate function (Active High)
- **MEMORY 1 (Gray)** — Momentary trigger to recall saved pattern 1 (Active High)
- **MEMORY 2 (Green)** — Momentary trigger to recall saved pattern 2 (Active High)
- **SYNC (White)** — Connect to another unit's SYNC wire to synchronize flash patterns
- **DATA (Orange)** — Not used – Insulate and secure

WIRE FUNCTION REFERENCE

WIRE COLOR	FUNCTION
Black	GND – Connect to vehicle chassis ground (–)
Red	+12V – Connect to 12–24V DC positive (+)
Yellow	MODE – Momentary trigger to change flash pattern (Active High)
Blue	ALT – Momentary trigger for alternate function (Active High)
Gray	MEMORY 1 – Momentary trigger to recall saved pattern 1 (Active High)
Green	MEMORY 2 – Momentary trigger to recall saved pattern 2 (Active High)
White	SYNC – Connect to another unit's SYNC wire to synchronize flash patterns
Orange	DATA – Not used – Insulate and secure

OPTIONAL CIGARETTE ADAPTER (SOLD SEPARATELY)



Plug the cigarette adapter into a 12V DC power outlet.

- Press the ON/OFF switch to turn the light bar ON or OFF.
- Press the PATTERN/MODE button to advance to the next flash pattern.

Note: Memory 1, Memory 2, and SYNC functions are not available when using the cigarette adapter.

TROUBLESHOOTING GUIDE

ISSUE	POSSIBLE CAUSE	SOLUTION
Light bar does not power on	No power or poor ground connection	Check +12V, ground, and fuses
Light bar turns on but does not respond to MODE / MEMORY inputs	Input wires not connected or not receiving ground trigger	Verify wire connections and provide momentary ground (Active High)
Light bar not syncing with other units	SYNC wire not connected	Connect SYNC (White) wire between all units
Cigarette adapter not working	Loose connection or power outlet issue	Check outlet fuse and adapter connection

For technical support, warranty information, and additional resources, please refer to the last page of this manual.

INSTALLATION GUIDELINES

- Select a mounting location that provides clear outward visibility and does not obstruct vehicle operation.
- Two L brackets and four bracket screws are included. The screws attach the brackets to the light. Mount to a structurally sound surface using suitable vehicle attachment hardware.
- Inspect both sides of the mounting surface before drilling.
- Use grommets at all wire pass-through holes.
- Protect exposed wiring with loom and secure it with cable ties.
- Confirm the light is secure and wiring is protected before placing the vehicle in service.

OPERATION

- Power the unit through a fused 12V DC hardwire connection or the optional cigarette-lighter plug.
- Use the Mode control input to change or select operating modes according to the compatible switch/controller configuration.
- Use Memory 1 and Memory 2 with the intended controller or switch arrangement to access the two memory-control functions.
- Use SYNC only when connecting compatible Lynx units for synchronized operation.

MEMORY FUNCTIONS

The harness provides two dedicated memory-control leads labeled Memory 1 and Memory 2. Dual Memory stores two pattern settings independently. Both saved settings remain after a complete power disconnect.

Because the supplied schematic does not define the exact electrical trigger method for the memory leads, installers should follow the intended controller or switch configuration rather than applying power or ground directly to a memory lead.

SYNCHRONIZATION

The SYNC lead synchronizes current Lynx L6 and T6 lights; older T4-series lights are not compatible. When multiple compatible units are used, route the synchronization wiring separately from primary power wiring where practical and secure all connections against vibration and moisture.

Do not connect the SYNC lead to vehicle power or ground unless a compatible controller or model-specific diagram specifically calls for that connection.

FLASH PATTERN INFORMATION

The Lynx L6-6 includes a dedicated Mode control input for pattern selection. Its 36 selectable patterns include wig-wag, strobe and steady-on. Left, right and center-out are selectable patterns, without separate arrow controls.

Control Capabilities

- Mode selection through the dedicated Mode control lead
- Two memory-control inputs
- Multi-unit synchronization through the SYNC lead

FINAL INSTALLATION CHECK

7. Confirm the light housing is securely mounted.
8. Confirm GND and +12V connections are secure and protected.
9. Confirm no wiring is pinched, exposed, or routed near heat or moving components.
10. Verify Mode and memory-control functions.
11. If multiple compatible units are synchronized, verify all units operate together correctly.
12. Confirm legal compliance before placing the vehicle in service.

WARRANTY & SUPPORT

A free 5-year warranty is included. Contact ETD with your order number and a description of the problem before returning the light.

Product-operation support: customerservice@extremetacticaldynamics.com. Include your model and order number.