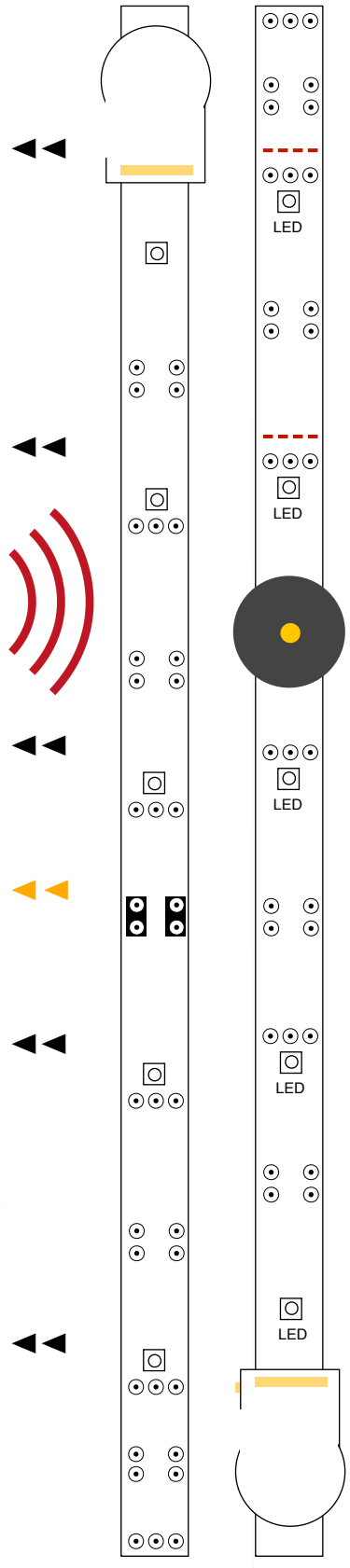
Train-Tech
Model Technology Made Easy

COACH SOUND AND LIGHTING

CL120 Coach Lighting set inc Amber door lights & door sounds
Senses movement- turns lights & sounds on & off automatically
Door lights & sounds after train stops as modern coaches/units

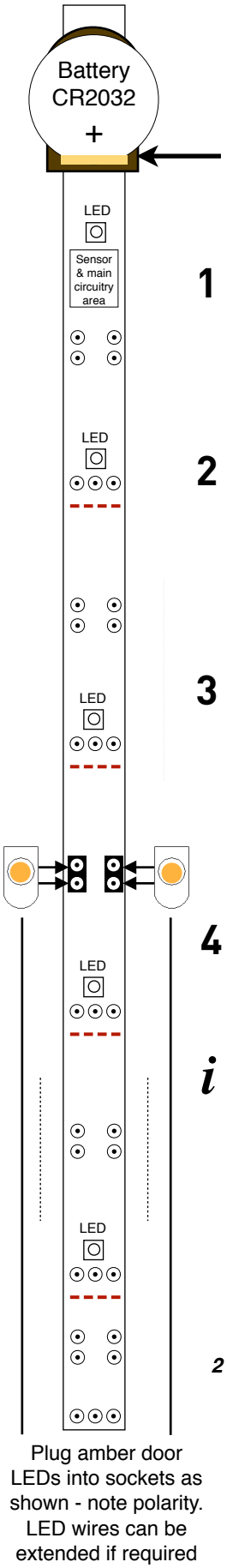
Image courtesy ©Hornby Hobbies

- **No wires or pickups**
- **Lights automatically**
- **Easy and quick to fit**
- **Light coaches / units**



Train-Tech - Designed and made in Gt Britain

Fitting instructions



Plug amber door LEDs into sockets as shown - note polarity. LED wires can be extended if required

This set comprises 2 lighting strips; 1 with door lights & 1 with a sounder

Setting up - Fitting the battery
Slide battery (+ side up) in under gold contact first, then push down.
Once the battery is fitted the LED's should light - the slightest movement automatically switches them on.

1 Remove roof from coach/multiple unit
Tip - Sometimes the roof and body are all one piece & unclip/unscrew from the chassis and sometimes the roof comes off on its own. Model shops and manufacturers can also offer advice.

2 Prepare for fitting amber door LEDs
Decide where to fit the amber door LEDs - on some models they already have lights painted on. Carefully drill a small 1.8mm hole for LED lens to fit into - a small finger chuck is usually the safest and easiest way to drill.

3 Fit lighting strips into coach roofs
Line up the strip and door LEDs with the holes you have made and fit into the roof - you can cut the LED wires shorter if necessary. Drill sound exit holes in base of coach with sounder in. Use Blutack or double sided pads to hold lighting strips in place if required.

4 Refit the roof
You have completed installation! Lights will switch off automatically four minutes after the last movement.

i **Battery** When lights become dim or intermittent replace with a standard CR2032, available from many retailers and Train-Tech dealers as part BAT1.
Lighting strips may be shortened as the red dashes show - details overleaf
Other coach lighting strips
There are warm & cool white versions with tail lights & electric spark effects.

Ask for free Train-Tech brochure!

2 Batteries & 2 amber door LEDs included

Train-Tech
Gaugemaster House, Gaugemaster Way
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Tel: 01903 884321
email: train-tech@gaugemaster.co.uk
Shop: www.gaugemaster.com/train-tech
Train-Tech website www.train-tech.com

CL120 Dual Cool White Coach Lighting set with door lights and sounds

5 060325 131464

Track Tester

DC & DCC | O & G Gauge | 00 HO | N Gauge

- Quickly checks track for power faults
- Small & Larger Versions - for N gauge to G gauge!
- Multicolour LED Indicates the DC polarity, or DCC, or a fault

Buffer Lights

WIRE FREE | DC & DCC | O Gauge | 00 HO | N Gauge

- Realistic stop light for any siding - fits most buffer stops
- Simply clips onto track – No wires!
- On DCC both lights are on constantly
- On DC one light is on & varies with speed

DCC Fitted Digital Signals

DCC | WIRE FREE | 00 HO

- Signal with DCC decoder built in - No CV programming
- Easy to fit and use - can just plug direct into track – no wires!
- Wide range available - also available with Feathers and Theatres

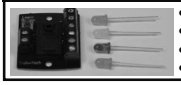
One-Touch DCC™ Point Controllers

DCC | ANY GAUGE

- Control points and uncouplers using DCC
- Work with most solenoid point motors - Built in CDU
- Just connect 2 wires to DCC rails - No CV Programming!
- Easy screw terminals – no soldering

LFX Lighting Effect Controllers

DC & DCC | ANY GAUGE



- Easy way to add lighting effects to your layout
- Wires screw in – no resistors or soldering - LEDs included
- Powered by 9v battery, 8-16V DC or DCC
- On DC the effect is on when powered - On DCC it can be controlled

Level Crossing - Ready Assembled

DC & DCC | 00 HO | N Gauge

- Power from 9-16v DC, DCC or a 9v battery - available in single & pairs
- Light and sound - all connections easy push fit
- Includes 2 x Peco static level crossing barriers
- Can be turned on automatically using a Track Sensor

Traffic Lights - Ready Assembled

DC & DCC | 00 HO

- Power from 9-16v DC, DCC or 9v battery - 2 Wire connection
- Realistic standard UK sequence and timing varies randomly
- Fully assembled - drill hole in baseboard & connect to power

Track Sensor

DC & DCC | 00 HO | N Gauge

- Trigger level crossings and change semaphore signals
- Power from 12-16v smooth DC or DCC
- Can be used to trigger Sound Track, Smart Screen, Relays
- Four outputs for direct connection to LEDs for occupancy, FX

Mimic Switches & Lights

DC & DCC | ANY GAUGE

- Make a mimic panel to control Layout Link items - Single wire to control
- Link to Track Sensors or Sensor Signals and LEDs show occupancy & signal status
- Link to Sensor Signals to manually override and switch route indicators on/off

Smart Lights - Easy to fit Lighting Effects

DC & DCC | ANY GAUGE

- Small - Just 1cm x 1cm x 0.3cm with 2 wires
- Power by 9-16v DC, 9v battery, or direct to DCC which can control some effects
- Just connect and go - no setting up required
- Disco / Emergency / Real Fire / TV / Welding / Random / Programmable

Automatic Tail, Firebox & Loco Lights

DC & DCC | AUTO | WIRE FREE | ANY GAUGE

- No switch - senses motion & turns on!
- Turns off automatically 4 minutes after stopping
- No pickups, wires or soldering - LED just plugs in
- Fit in brake vans, coaches, loco, wagons etc
- Runs for ages on 2032 button battery - LEDs & battery included

Sound for your layout

DC & DCC | AUTO | WIRE FREE | ANY GAUGE

SFX Sound
- Sound capsule with no wires - runs from a battery - built in speaker
- No connections to track so work with both DC & DCC
- Motion activated - switches on when train moves! Real Sounds!
- Tiny - 25mm x 20mm x 12mm - N gauge fitting guide available

Sound Track
- Record your own sounds and play them back on your layout!
- Record 4 tracks upto 35 seconds each - Lock to protect favoutires
- Portable - use with 9v battery to take out & record sounds
- Power from DC or DCC - Use Track Sensors or DCC to trigger sounds

Scenic Sounds
- Background sounds for your layout - built in speaker & volume
- Power from DC or DCC - on DCC sounds can be triggered
- Lineside • Station Steam • Station Modern • Urban • Rural

Signal Kits

DC & DCC | 00 HO

Every kit includes the signal head, aluminium post & base plus detailing kit

- Low cost – adapt to your own design
- Control by switches or signal controller
- LEDs are prefitted to a narrow PCB
- Ground signals - modern & original
- Feather & Theatre kits available
- Signal Head only for gantries etc

Signal Controllers

DC & DCC | AUTO | ANY GAUGE

- **DCC Signal Controllers** - Wire in any LED signals to control from DCC accessory address
- **Automatic Signal Controllers** - Make any LED signal kit into an Automatic Signal!
- **Dapol Semaphore Controllers** - Control Dapol Semaphores by DCC or automatically

1119

Automatic Sensor Signals

WIRE FREE | DC & DCC | 00 HO

- Detects train and changes signal automatically to red
- Used own & signal changes back to green after train short time
- Or link to other Sensor Signals for fully automatic block signalling
- Can be used on both DC & DCC - Feather & Theatre versions

Automatic Coach Lighting

DC & DCC | AUTO | WIRE FREE | 00 HO | N Gauge

- Easy to fit - no wiring or switch - senses motion & turns on!
- Turns off automatically - fits most coaches - may be cut down
- No pickups or wires so works on regular DC & DCC
- Traditional warm white or modern cool white
- Also with tail light, sparking, door beeps and door light effects

Servo Controller

DC & DCC | ANY GAUGE

- Controls standard radio control servo from DCC, Track Sensor or Mimic switch
- Ideal for animating Level Crossing barriers / gates, Slow points or signals, Coal hopper
- Easy to wire and set up - connects directly to DCC or 8-16 volts smooth DC supply

Relay Controller

DC & DCC | ANY GAUGE

- Two channel Relay unit which can be controlled by Track Sensor, Sensor Signal or DCC
- Enables remote control of motors, solenoids, lamps etc
- Incorporates two heavy duty relays with changeover contacts rated at 8-24 volts at 3 A

Automatic Train Control

DC & DCC | ANY GAUGE

- Link Sensor Signals to Relay Controller for automatic trains which stop at red lights!
- Can be used on DC or DCC Layouts
- Easy wiring: Sensor Signal link with one wire and Isolated braking section two wires.
- Also supports ABC fitted DCC Loco's for gradual slow down and speed up with sound

Tools, LEDs & Accessories

ANY GAUGE

- We offer a range of LED packs, battery holders, wire, switches & terminals
- Also handy modelling tools including precision cutters, drill bits & spare batteries

Smart Screen

DC & DCC | 00 HO

- Real working animated screen - customise with your messages
- Use DCC to program - then can be run on DC or DCC
- Trigger messages with DCC, swtiches, track sensors or just cycle
- Message can change with direction of train on both DC & DCC
- Display upto 10 different messages - can also show real time clock
- Range of enclosure available - Programming service available
- Small - w 31mm x h 9.5mm x d 4.5mm
- Stationary top line - bottom line automatically scrolls

SEE WWW.TRAIN-TECH.COM OR ASK FOR FREE COLOUR BROCHURE

Coach Lighting Strip - additional information

Cutting the lighting strip down

The strip may be cut down, either to fit it into a shorter coach or to split lighting inside a compartment to avoid obstacles such as a pillar, wall or a motor in a multiple unit for example. With care it may be cut at any of the four points indicated by a dotted line as shown right & overleaf. We suggest using fine sharp model or wire cutters to make a clean cut without getting too close to any silver circuit board 'pads' or twisting the strip. Remove the battery before you cut and smooth the edges with a fine file before using. If splitting the lighting strip you can reconnect part strips using wires to link any two rows of 3 silver pads together.

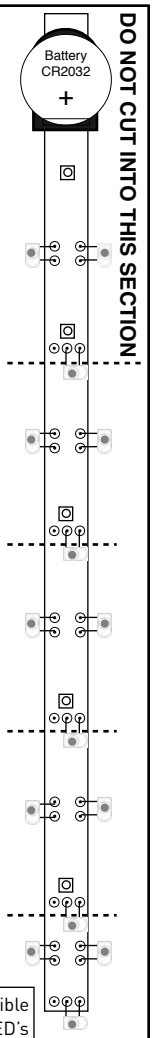
Moving Tail, Spark or Door effect LEDs

If your lighting strip also has tail, spark or door light effects you can also move these either by moving the fitted socket(s) or connecting the LED's directly to the silver pads (this requires soldering). Note that all rows of the 2 and 3 silver pads on the lighting strip are connected together so any can be used either for effect LED's or connecting split strips together. The drawing on the right shows the many possible positions for the effect LED's.

Note that modifications made to the strip are at the owners risk

How the automatic coach lighting strip works

The strip incorporates a special microchip and motion sensor which detects slight movement and turns on the lights, then keeps them on until four minutes after the last motion, so that the lights do not go out as soon as it stops at a signal or station.



shows the many possible positions for effect LED's

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