ITT Products

PO Box 5042 West Hills CA 91308 (818-926-1143) www.ittproducts.com

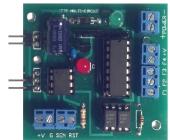
Instructions & information for LT200 Lightning & Thunder Warranty 90 days

The LT200 is a lightning and thunder system specially programmed to provide the lightning just before the HQ module sounds thunder. This system is easy to use and will provide exciting reality to your train layout.

The input power should be 9 to 14 volts DC and you need to observe the polarity when connecting up the power. However, you will not damage the module if you connect it backwards. When it is connected correctly, the green LED will light. The red LED will flicker in sync with the lightning when it occurs, then the HQ module will sound the thunder. Our LED/LAMP- 1, 4 watt 12 volt Lamp is **not polarity sensitive**. It puts out several bright bursts of pure white light.

....CAUTION!! DO NOT STARE DIRECTLY INTO THE LED LAMP AS IT IS EXTREMELY BRIGHT!!....









Updated: 9/9/14

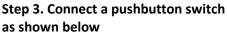
Connecting information

In Step 1, you will need to connect any size 8 ohm speaker to the wires pre-installed coming out of the speaker terminals, or replace them with new wires connected directly to the terminals.

You may have to separate the 2 modules if necessary. You can extend the speaker wires longer if needed.

In step 2, connect power, and the LED lamp as indicated. LED/LAMP-1 is not polarity sensitive.

In step 3, pushbutton switch is optional.





Step 1. Shows the 2 boards married together. Connect speaker to wires.



Step 2. Connect the LED Lamp to the terminals indicated. Lamp polarity does not matter for the LED/LMP-1.



Operation

When power is turned on, lightning will flash, and then the thunder will occur. Depending on the HQ thunder scenario chosen, there may be more than one lightning and thunder occurrence, during the play time. When the scenario completes its cycle, the modules will sleep for 2 minutes and then repeat, unless it has been programmed differently upon request. You can use a reset button as in step 3 anytime in the cycle to restart the scenario from the beginning. Other LEDs', such as 12 Volt LED strips can be used. If you use other LED's that are not 12 volt rated, you will need a series resistor to prevent burning them out. In addition, you will need to observe + and – polarity

LED's, push button and speaker can be a distance from LT200 boards.