

The LA152 provides an easy method to install XpressNET ports in convenient locations anywhere on your model railroad. The LA152 uses the same wiring and thus is also compatible with NCE and Wangrow Cab Busses. For a professional looking installation the LA153 faceplate can be easily attached to the front of the LA152.

The LA152 has 6 ports:

- Port A contains two RJ12 six wire phone connectors. All six wires are connected between the two A ports
- Port B is a four wire RJ14 connector, the outer two wires in Port A are not connected to Port B.
- Port C contains two 5 pin DIN connectors.
- Port LMAB contains screw terminals for the four wires needed to connect XpressNET

LA152 Universal XpressNET Adapter

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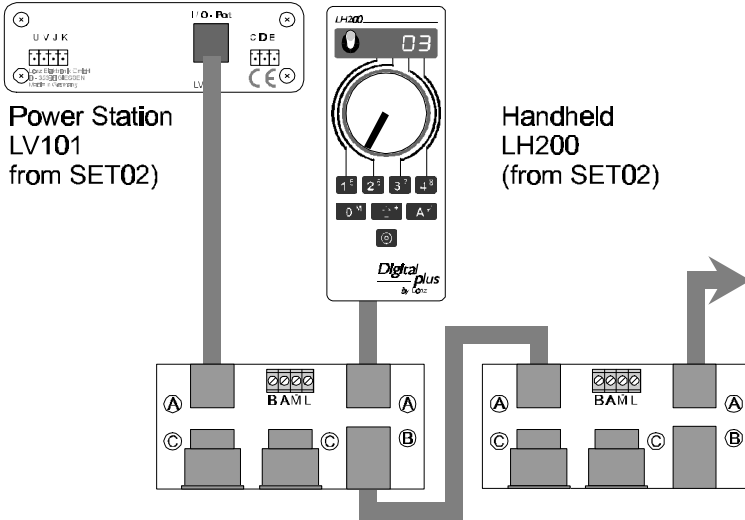
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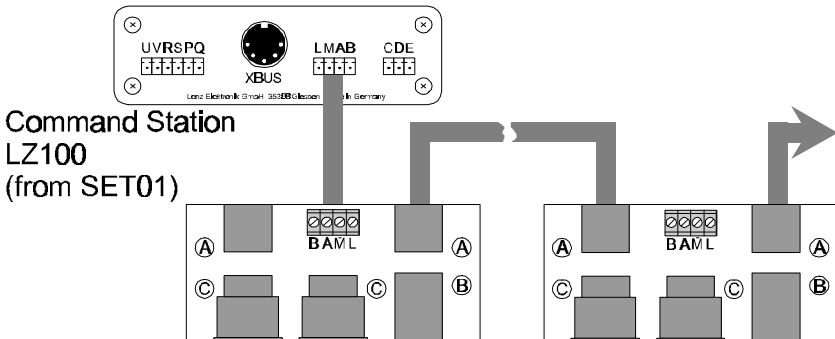


Using the LA152 Adapter with Set/02

The use of the LA152 adapter simplifies the installation of an XpressNET with Set-02. Using a six Wire RJ12 phone extension cord, connect the LA152 Port **A** to the I/O-Port at the rear of the LV101.



The master LH200 can then be connected to the second LA152 Port **A**. Other LH200s, LH100 or any other XpressNET devices can be connected to port **B**, **C**, or the **LMAB** connections. If you desire to plug in the master LH200 to a different LA152 then you must use a six wire RJ12 phone cable, between the LA152 adapters. Otherwise you can use a less expensive RJ14 based four wire connector to interconnect your LA152 adapters.

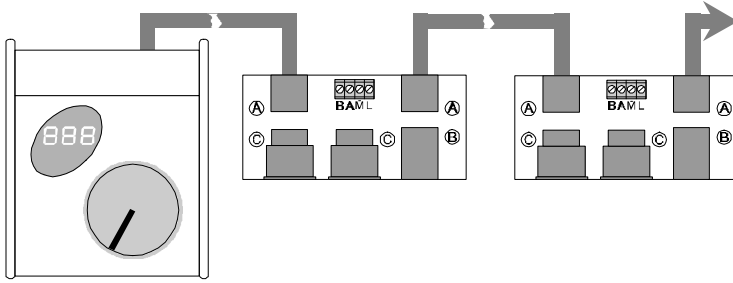


Using the LA152 Adapter with Set-01

To use the LA152 with Set-01 simply connect the LMAB outputs on the rear of the LZ100 to the corresponding **LMAB** connection on the rear of the LA152. Additional LA152 adapters can then be connected using either four wire RJ14 or 6 wire RJ12 cables.

Using the LA152 Adapter with other XpressNET based Systems.

Many XpressNET based systems are now shipped with a RJ14 four wire XpressNET phone plug interface. If your system has this simply connect this port to the LA152 using a 4 or 6 wire phone extension cable to Port A. Other LA152 adapters can be connected using port A to port A.

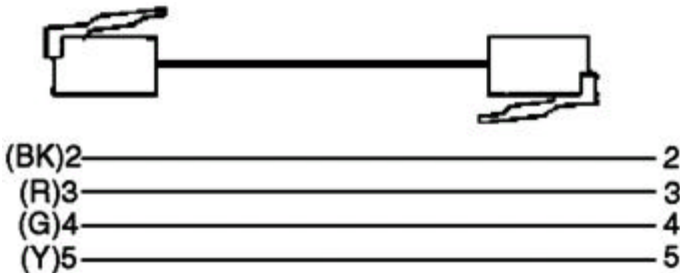


Some XpressNET systems do not have a RJ14 port. In this case simply connect the LA152 adapter using the LMAB connections.

Using Multiple LA152s

You can install any combination of LA152 and or DIN sockets around your layout that you like.

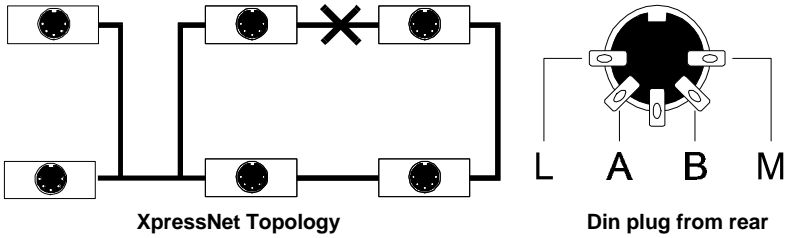
When interconnecting LA152s you can use either RJ11 4 wire cable or RJ12 6 wire cable to connect Port A of one LA152 to Port A of another LA152. The only restriction is that if you intend to use an LH200 as a master command station on a remote LA152 or if you intend to use NCE or Wangrow cab busses then you should use a 6 wire cable instead of the 4 wire cable.



Note: Care must be taken to use reverse style modular phone cables (see above figure) to interconnect LA152s

You may install your XpressNET in any configuration so long as there are no loops. To install branches use a standard RJ14 or RJ12 splitter or Tee (found wherever phone products are sold).

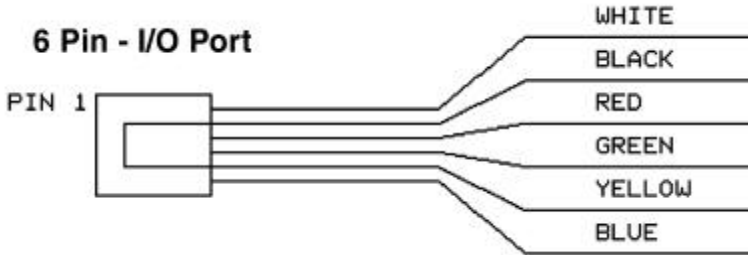
For exceptionally long XpressNET installations, (more than 300ft), you should use wiring with at diameter of at least 20 gauge to ensure that sufficient power is available to power your handhelds.



Details of the LA152 Modular Connector ports



The two six-pin phone modular connectors labeled **A** that are located on the rear of the LA152 are used to interconnect LA152's. The 4 port modular connector labeled **B** is used to connect LH200s that are not being used as the command station for Set-02. The wire connections for these modular connectors are shown in the following figure and table.



Pin #	Port A	Port B	Description
Pin 1	White	N/C	"C" Control Bus Connection
Pin 2	Black	Black	Ground "M"
Pin 3	Red	Red	- RS-485 "B"
Pin 4	Green	Green	+ RS-485 "A"
Pin 5	Yellow	Yellow	+12 volts "L"
Pin 6	Blue	N/C	"D" Control Bus Connection

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