Digitrax Command Control
Run Your Trains, Not Your Track!

UP5

LocoNet Universal Panel

Features

- Simplifies hookup, maintenance and troubleshooting of LocoNet
- Two RJ12 Throttle Jacks in front panel
- One RJ12 Throttle Jack for throttles on side panel
- Track Status Indicator LED shows local track status when hooked up to local track section.
- Two RJ12 LocoNet Jacks in rear panel for connection to other LocoNet devices. Use with 6 conductor telephone cable with RJ12 6-pin connectors and daisy chain you LocoNet ports around the layout.
- "Battery Saver" Circuitry for throttles connected to UP5. (External power supply required for battery saver)

Parts List

1 UP5 Front Panel   1 Instruction sheet
1 UP5 Circuit Board

Panel Assembly

The UP5 is shipped with the front panel unattached. Attach the panel as indicated in *Figure 1* prior to installing the UP5 in your layout.
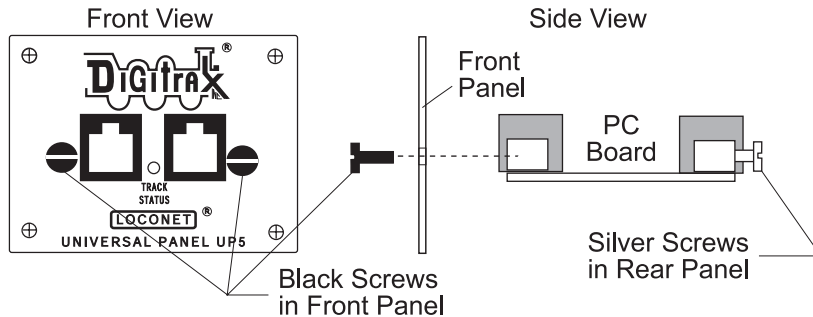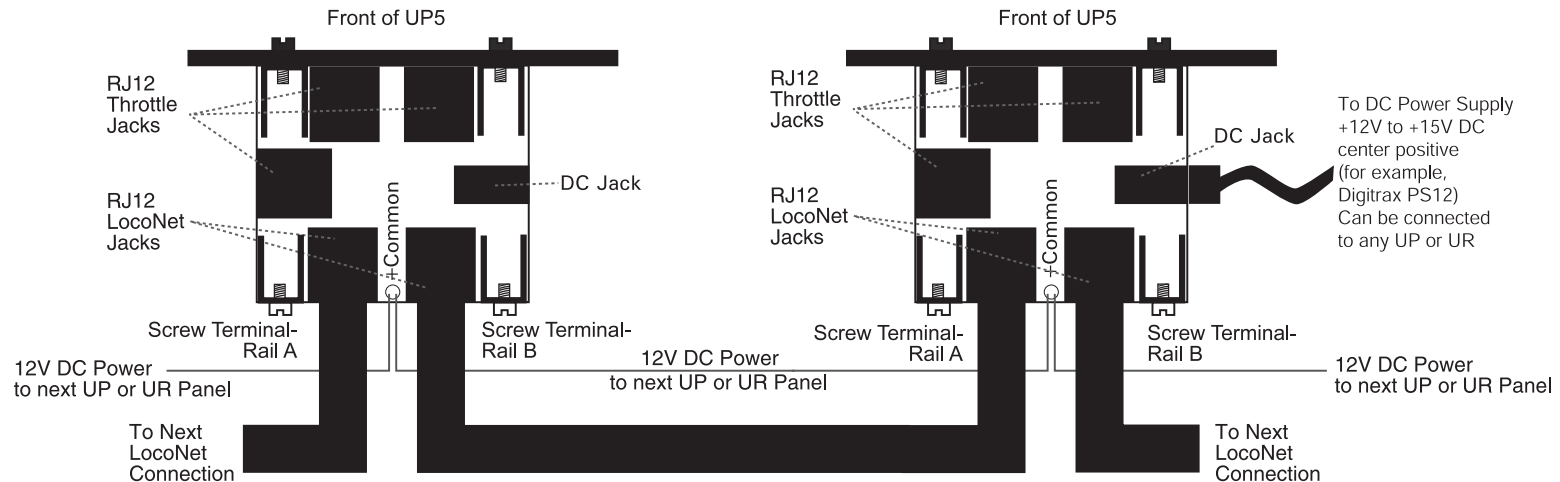
Figure 1. Panel Installation

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Figure 2. UP5 connections

Front of UP5

RJ12
Throttle
Jacks

RJ12
LocoNet
Jacks

DC Jack

+Common

Screw Terminal-
Rail A

Screw Terminal-
Rail B

12V DC Power
to next UP or UR Panel

12V DC Power
to next UP or UR Panel

To Next
LocoNet
Connection

Front of UP5

RJ12
Throttle
Jacks

RJ12
LocoNet
Jacks

DC Jack

To DC Power Supply
+12V to +15V DC
center positive
(for example,
Digitrax PS12)
Can be connected
to any UP or UR

+Common

Screw Terminal-
Rail A

Screw Terminal-
Rail B

12V DC Power
to next UP or UR Panel

To Next
LocoNet
Connection

Note: You can run up to 10 UP or UR panels with a single
DC power supply by simply connecting the +Common
pad on each board as indicated in this diagram.

UP5 Panel Installation

Connecting the UP5 is shown in *Figure 2*.

1. The UP5 Universal Panel is designed for mounting on the fascia board of the layout. Cut a hole approximately 2.5" w x 1.5" H in the fascia board. Insert the UP5 through the hole with the face plate on the front of the fascia board. Attach the UP5 face plate to the board with four small screws.

2. Connect the UP5 into LocoNet. There are 2 LocoNet Jacks located at the back of the UP5 board for connecting LocoNet devices on your layout. The UP5 can be connected directly to the command station or to any other device that is connected directly or daisy chained to the command station.

3. There is an additional jack on the side of the UP5 that can be used for either an additional throttle or for a single LocoNet device that does not use Rail Sync or that is not daisy chained beyond itself.

Hooking up the UP5's Power Supply (Optional)

The optional power supply (PS12) can be connected to one or more UP and/or UR panels to provide battery saving power to any Digitrax throttle that is plugged into any of the powered panels.

1. Plug the PS12 into the DC jack located on the side of the UP5 board.

2. Connect the +Common point on each additional board (located between the two LocoNet jacks) to the powered board with 22AWG wire (*Figure 2*). Up to 10 UP or UR panels can be run from a single PS12 power supply.

Hooking up the UP5's Track Status Indicator (Optional)

The UP5's Track Status Indicator is a bi-color LED that shows the status of the local track section to which it is attached.

1. Attach an 18-26AWG wire to Screw Terminal-Rail A on the back of the UP5 and connect the other end to either rail.

2. Attach another 18-26AWG wire to Screw Terminal-Rail B on the UP5 and connect it to the other rail of the track.

3. If you are hooking up more than one UP5, be consistent in hooking up all track sections alike with respect to which terminal is connected to which rail. This is not required but strongly recommended.

As you operate your layout, the UP5 Track Status Indicator will be lit when the track is powered. The LED will glow red or green when you are operating an analog locomotive and the system is "zero stretching." When you are using DCC only, the LED will glow orange. This color change is a useful diagnostic tool.

Movin' Down The Tracks With Digitrax®

Digitrax
Command
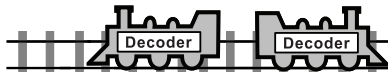**C**ontrol

Main Station

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Power Supplies

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Available

Your Digitrax LocoNet® Starter Set
is just the beginning
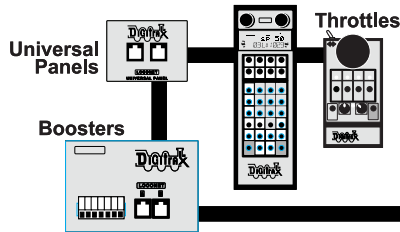of an exciting trip!
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for you!

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Super EMPIRE BUILDER™

ZEPHYR™

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The Digitrax
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Locomotive Shops

Mobile Decoders
Function Decoders

Decoder   Decoder

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Add More Boosters,
Advanced & Simple Throttles,
Power Supplies,
Universal Panels,
IR and/or Radio
for more trains and operators.

Universal
Panels

Throttles

Boosters

Maintenance Of Way

Make your
layout more
fun & simpler
to operate!

Automatic
Reversing &
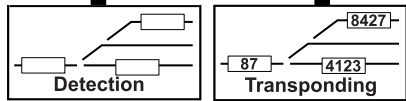**Power**
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Computer Controls

PDA Throttles
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