Assembly Instructions

To purchase parts or accessories, please contact us at
www.spectrumfurniture.com
1-800-235-1262
Thank you for purchasing Spectrum products!

Before you begin, please make sure all parts and proper quantities are included. Any parts damaged during shipment must be reported within 15 days of receipt. To report information regarding damages or if you have any questions, please call 1-800-235-1262.

Made in the USA

#55444 - InTouch 40 shelf w/ 7 Synchronizing USB Hubs
#55443 - InTouch 40 shelf only-no hubs

#55444 - InTouch 40 shelf w/ synchronizing USB hubs

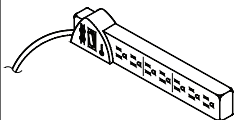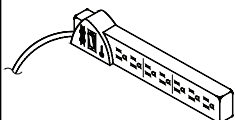|			
(7) 0110407 7-port USB hub	(1) 0110564 cord wrap bracket	(6) 0100167 8-32 x 1/2" PH thread cutting screw	(8) 0110254-5 3" x 2" self-adhesive Velcro® pads
(1) 052741 7-outlet power strip	(1) 0110565 shelf	(4) 052901 8-32 x 3/8" PHMS	(15) 0102376 11" zip tie
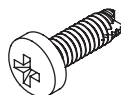
#55443 - InTouch 40 shelf only (no hubs included)

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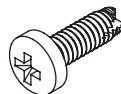
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1. Assemble Shelf

A. Align and attach the shelf to the cord wrap bracket with (4) 8-32 x 3/8" PHM
   screws as shown in **Figure 1**.
B. Using the narrow slots as guides, apply (6) 3" x 2" adhesive Velcro®
   pads (hook side) to the top of the shelf as shown.

Note: If you have the shelf
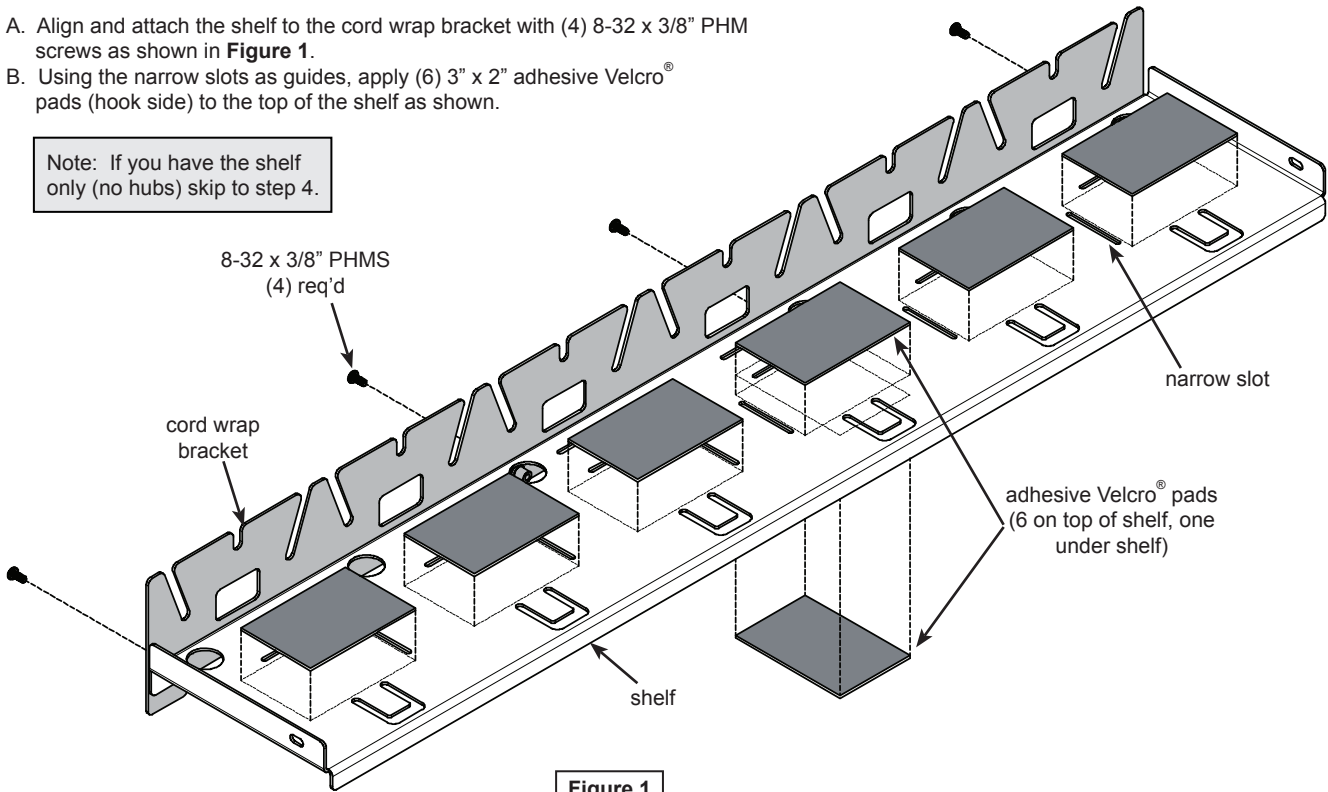only (no hubs) skip to step 4.

8-32 x 3/8" PHMS
(4) req'd

cord wrap
bracket

narrow slot

adhesive Velcro® pads
(6 on top of shelf, one
under shelf)

shelf

Figure 1

2. Install USB Hubs (hubs only included with #55444)

A. Apply a 3" x 2" Velcro® pad (loop side) to the bottom of each USB hub.
B. Attach the 6 hubs to the top of the shelf. **Figure 2**.
C. Attach the feeder (Hub #7) to the bottom of the shelf 90° to the other hubs as shown.
    *Note: The single feeder hub under the shelf distributes the data stream to the other
    6 hubs.*
D. Power cords and USB cables can be secured to the shelf with the included zip ties, and
    cord wrap bracket.
E. See the hub installation guide included with the hubs for further operational, connection,
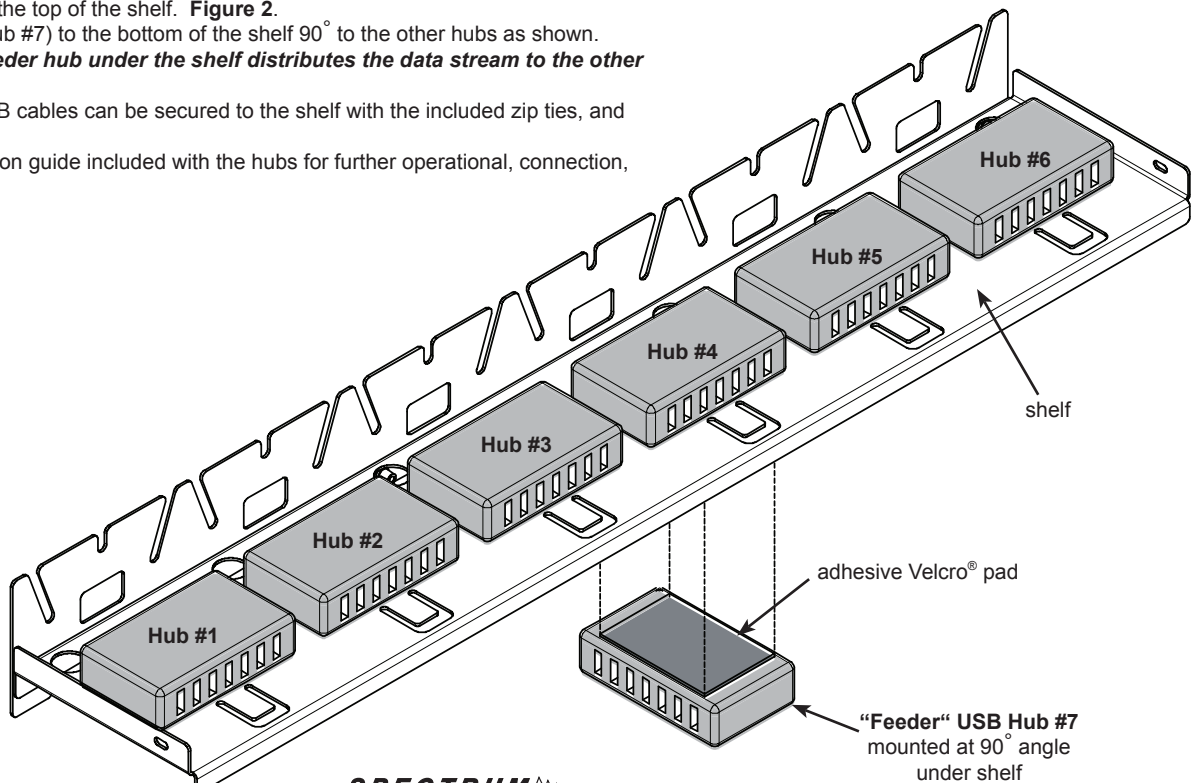   and setup info.

Hub #6

Hub #5

Hub #4

Hub #3

Hub #2

shelf

adhesive Velcro® pad

Hub #1

"Feeder" USB Hub #7
mounted at 90° angle
under shelf

Figure 2

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A. Connect the USB cables to the hubs. See USB wiring diagram for reference.
Figure 3A.

USB Hub Wiring Diagram

Note: Diagram shows USB connections only.
Each hub also has a power adapter cord.
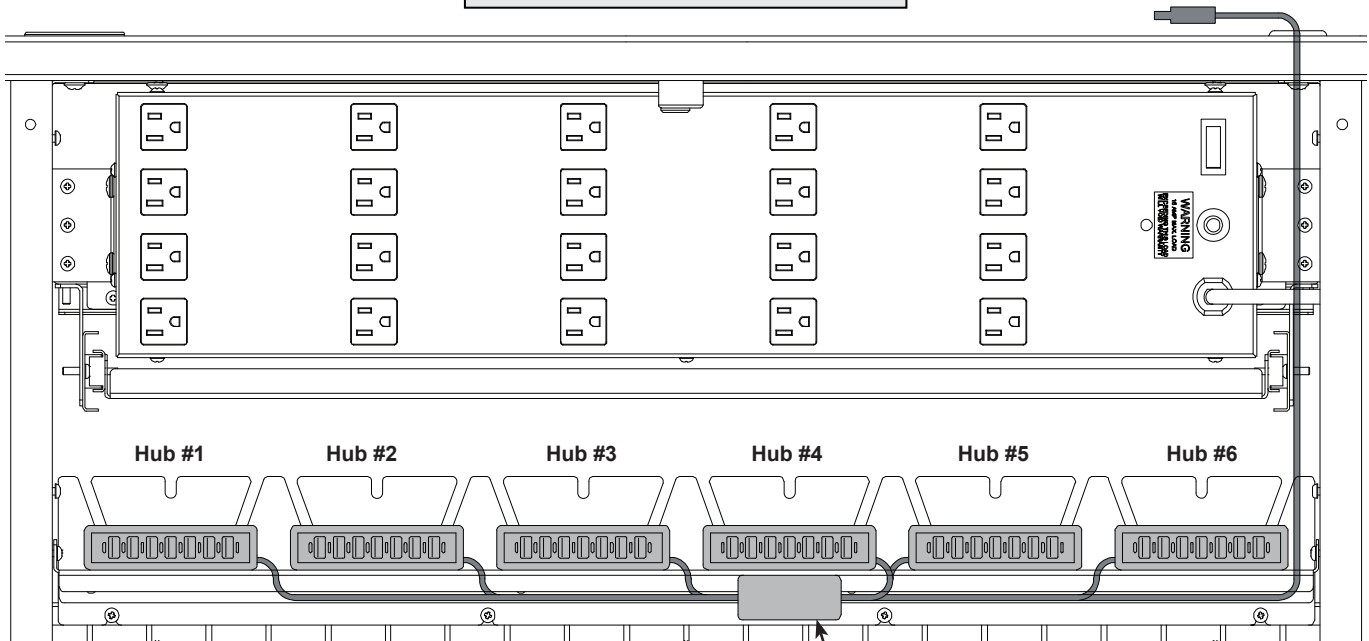
to laptop, tablet, or wireless
router on worksurface

Hub #1   **Hub #2**   **Hub #3**   **Hub #4**   **Hub #5**   **Hub #6**

WARNING

"Feeder" USB Hub #7
mounted at 90° angle
under shelf

Figure 3A

B. Bundle and secure excess cords behind each hub
with zip ties. **Figure 3B**. Cord management slots
can be used to secure cords to shelf.
C. Power cords and USB cables can be secured to the
shelf using the cord management slots.

excess cord bundled
behind hub with zip tie

cord management slots

cord wrap

Typical Wiring Recommendation

Figure 3B

cord wrap
bracket

route cords
through holes

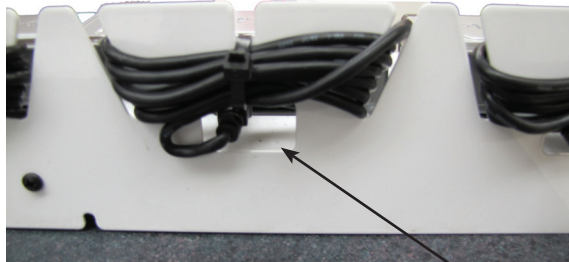bundled USB
cords
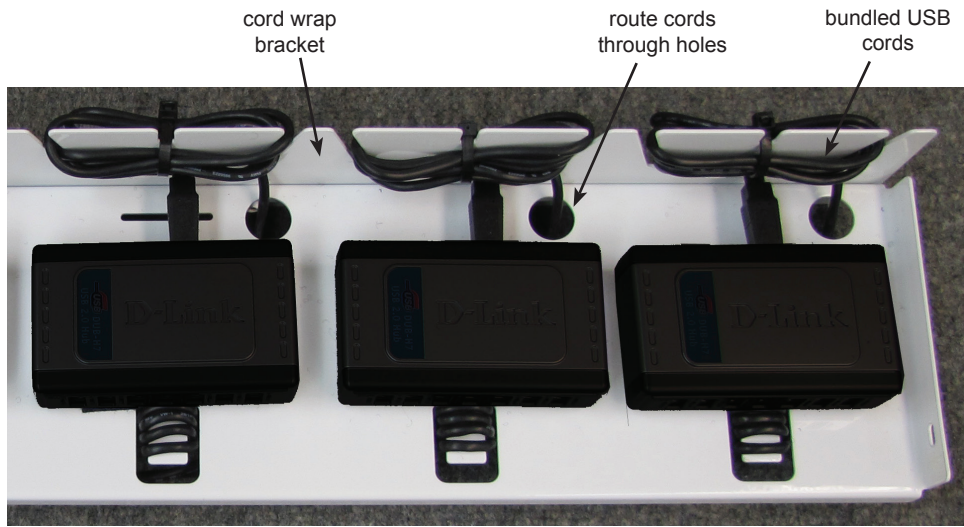
Shelf Top View
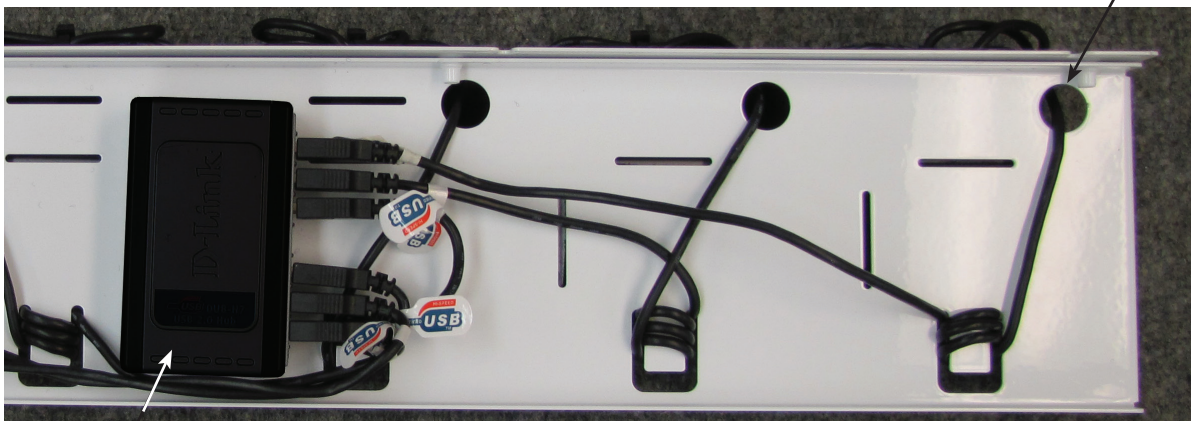
Figure 3C

Figure 3D

Rear View of Shelf

Figure 3E

cord opening
for USB or
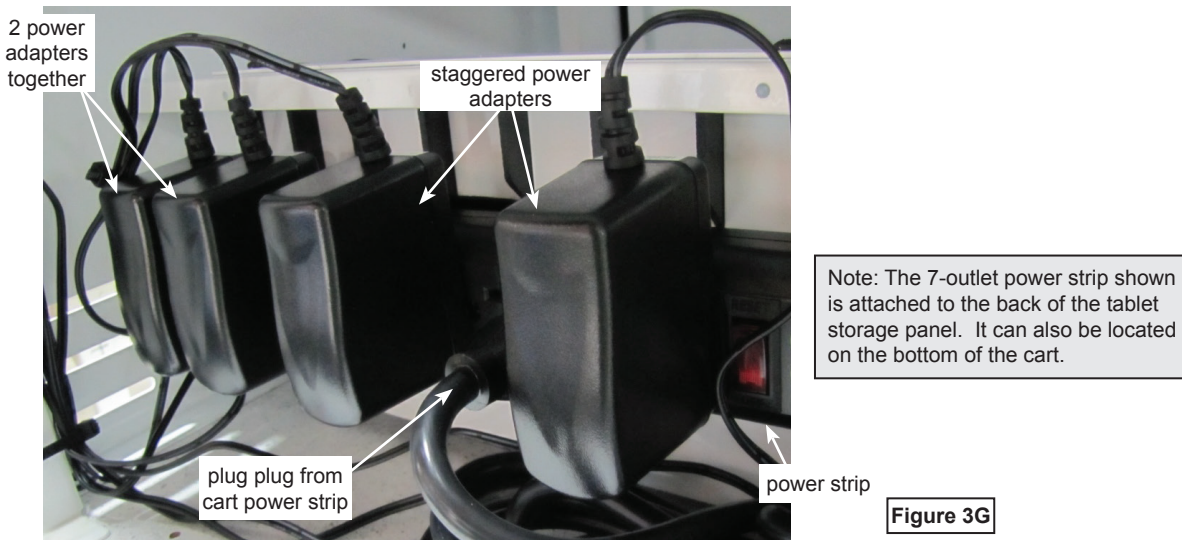power plug

cord opening for
USB or power plug
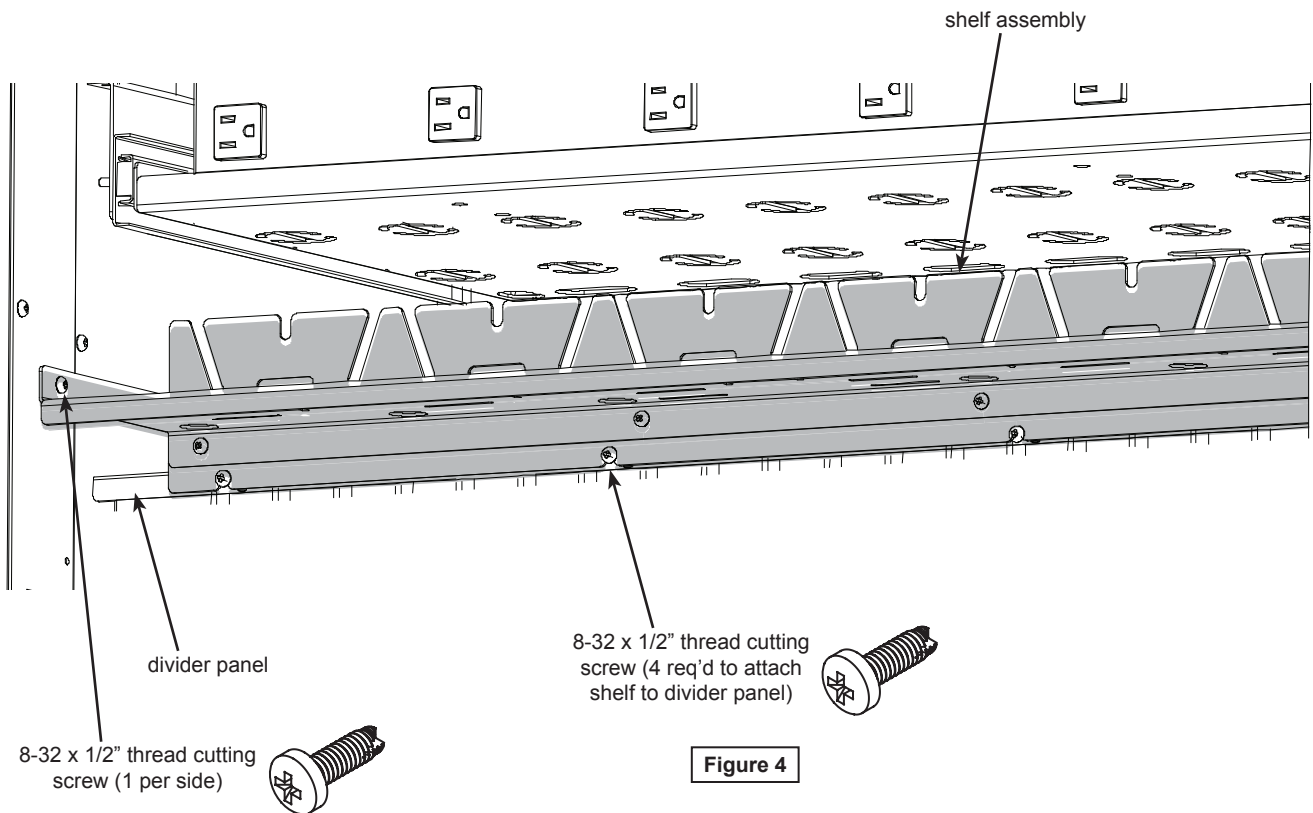

feeder hub

Shelf Bottom View

Figure 3F

D.   Place the 7-outlet power strip at the bottom of the cart. This power strip can be mounted to the the back of the tablet storage panel or placed in the bottom of the cart. Switch off both power strips.
E.   Plug the (7) USB hub power adapters into both power strips. The adapters need to be staggered and plugged in as shown. **Figure 3G**.

Note: *2 hub power adapters can be plugged in next to each other at the end of the power strip opposite the switch.*
*The remaining hub adapters will be staggered. **Figure 3G**.*

2 power adapters together

staggered power adapters

Note: The 7-outlet power strip shown is attached to the back of the tablet storage panel. It can also be located on the bottom of the cart.

plug plug from cart power strip

power strip

Figure 3G

4. Attach Shelf to Cart

A.   Open the Instructor-side doors on the cart (outlet-side) install (4) 8-32 x 1/2" PH thread cutting screws in the divider panel but do not tighten completely. **Figure 4**.
B.   Set the shelf assembly onto the 4 screws as shown. Tipping the shelf slightly will help get it into the cart.
C.   Secure the shelf to the side panels using the remaining (2) 8-32 x 1/2" PH thread cutting screws.
D.   Tighten all screws securely.

shelf assembly

divider panel

8-32 x 1/2" thread cutting screw (4 req'd to attach shelf to divider panel)

8-32 x 1/2" thread cutting screw (1 per side)

Figure 4

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5. Route Cords

A. On the instructor-side of the cart (outlet-side) route the USB cord from the feeder hub under the shelf up the inside wall of the cart to the worksurface. **Figure 5A**. The cord can be secured using the plastic cord clip inside the cart.

B. Route the power cords from all USB hubs down the inside wall of the cart. **Figure 5C**. The cords can be secured using the plastic cord clips.

C. Mount the existing 7-outlet auxiliary and included 7-outlet power strips to the bottom of the cart with Velcro® pads and switch off.

D. Plug the USB hub power adapters into both power strips. The adapters will need to be staggered using every other outlet. **Figure 5D, 5E**.
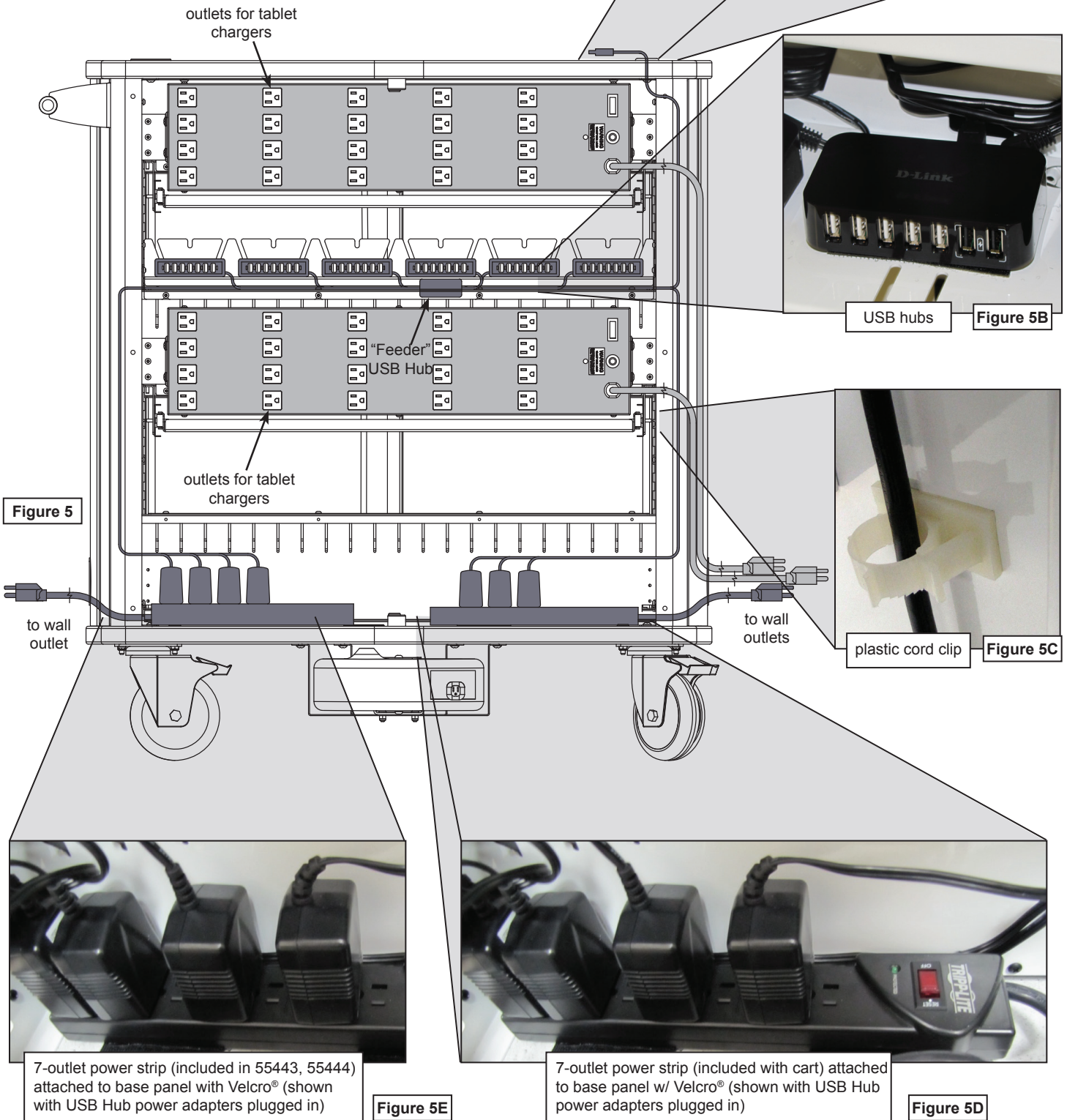

USB cord from feeder hub | **Figure 5A**

outlets for tablet chargers

Figure 5

"Feeder" USB Hub

USB hubs | **Figure 5B**

outlets for tablet chargers

to wall outlet

to wall outlets

plastic cord clip | **Figure 5C**

7-outlet power strip (included in 55443, 55444) attached to base panel with Velcro® (shown with USB Hub power adapters plugged in) | **Figure 5E**

7-outlet power strip (included with cart) attached to base panel w/ Velcro® (shown with USB Hub power adapters plugged in) | **Figure 5D**

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6. USB hub start-up

A. Make sure all wires are connected as shown in **Figure 3A**. Each hub MUST be plugged into the auxiliary power strip at the bottom of the cart.
B. Make sure the tablet USB cables are plugged in at the tablets and the hubs.
C. Make sure power strip is on, and plugged into either the cord reel or a live wall circuit.
D. The LED on top of each hub will light up when the hub is receiving power. If the LED does not light, check all connections.
E. If the LED still does not light, follow the reset procedure below.

USB Hub Reset Procedure (#55444 only)

Note: The hubs can be reset if a power failure occurs or if any of the hubs do not power up with the LED light on.

This reset procedure is for the synchronizing USB hubs included only. For all other USB hubs, refer to your specific hub instructions for further information.

A. To reset the hubs, switch off the power strip and disconnect each hub's USB and power plug.
B. Let sit for 30 seconds.
C. Reconnect the hub USB and power plugs and switch the power strips on.

(If the hubs still do not power up, check the power supplies to make sure they are operational)

Minimum System Requirements

- Computer with Windows® 7, Windows Vista®, Windows® XP SP2, Windows® 2000 SP4, Mac OS® X 10.4 or higher
- Computer with USB 1.1 port

USB Hub Specs

Standards
- USB specification version 2.0 1 (data rates of up to 480 Mbps)
- USB specification version 1.1 (data rates of up to 12 Mbps)
- OHCI
- UHIC
- VEHCI

Interfaces
- 1 upstream USB 2.0 Type B (female) port
- 7 downstream USB 2.0 Type A (female) ports (including 2 Fast Charging ports)

Connectivity Rules
- Up to five cascaded hubs
- Maximum cable length between each hub: 5m
- Up to 127 devices

Diagnostic LED
- Standard Mode (blue)
- Fast-Charge Mode (green)

Supplied Charging Current
- Standard Mode:
    All seven USB ports - 0.5 A per port 2
- Fast-Charge Mode:
    5 standard USB ports- 0.5 A per port 2
    2 USB fast charging ports - 1.2 A per port 2

Power Input
- + 5 V / 3 A DC

Dimensions (L x W x H)
- + 3.94 x 2.2 x 0.9 inches (100 x 57 x 23 mm)

Weight
- 0.19 lbs (85 g)

Operating Temperature
- 32 to 104°F (0 to 40°C)

Storage Temperature
- -4 to 158°F (-20 to 70°C

Operating Humidity
- 5% to 95% (non-condensing)

Storage Humidity
- 0% to 95% (non-condensing)

Certifications
- FCC
- CE
- C-Tick
- VCCI
- IC
- RoHS

Rear View

Front View

Note: The iPad® has a single cord for charging and syncing. This cord must be moved from the power plug to the sync hub for syncing. Many tablet devices use this same type of configuration. Some have a separate power cord and separate USB cord to accomplish both syncing and charging functions. Please consult the owners manual of your specific device for further information.

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