

RBI

LG 49" Open Frame 1 X 3 Digital Drive Thru Menu Board

Installation Instructions

NOTE: BEFORE BEGINNING THIS INSTALLATION, THERE MUST BE A 20 AMP DEDICATED CIRCUIT FOR THE POWER SWITCH AND A SEPARATE 15 AMP DEDICATED CIRCUIT INSTALLED FOR THE CONVENIENCE OUTLET FOR THE DIGITAL DRIVE THRU.

NOTE: PLEASE READ THE ACCESSORY SHROUD KIT INSTRUCTIONS BEFORE STARTING THIS INSTALLATION.



Drawing Type Installation

Customer Restaurant Brands International

Project Description 1 X 3 LG Open Frame Digital Drive Thru

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Proj. Man.:
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Parts

A - (1) Mounting Steel

B - (1) Set of 4 Anchor Bolts w/ Template

C - (1) Horizontal Frame

D - (1) Wire Shroud

E - (6) Vertical Screen Brackets

F - (3) Wire Way Panels

G - (6) Zip Ties and Pads

H - (1) Anchor Bolt Cover

I - (1) Switch Cover

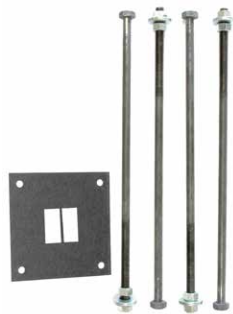
J - (1) 20 Amp Switch

K - (1) Switch Box w/ Holes

L - (2) 1/8" Outlet Box Gaskets



A



B



C



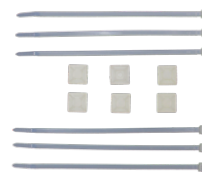
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E



F



G



H



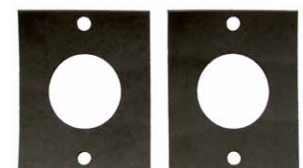
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J



K



L

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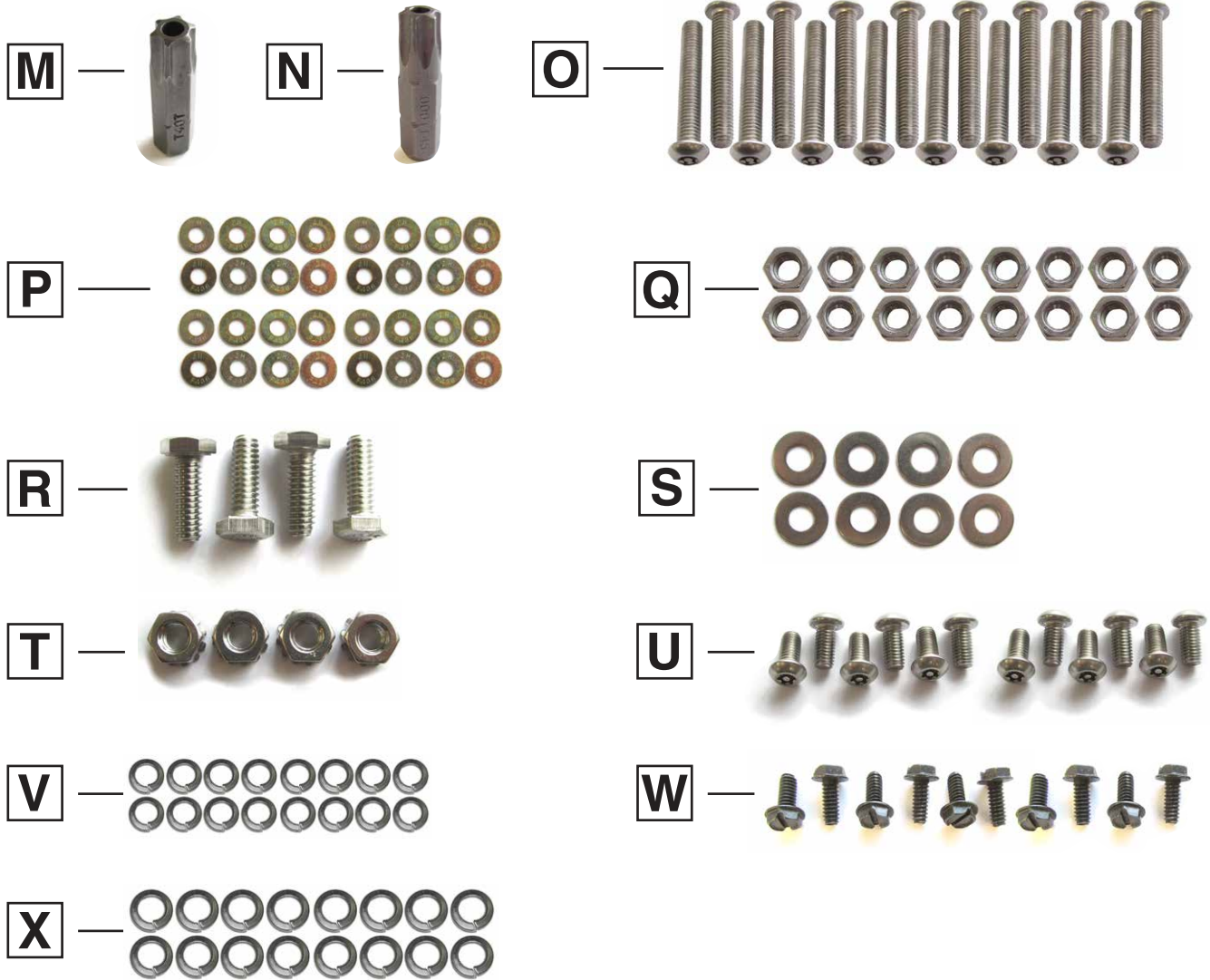
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Parts

- M** - (1) T40 Torx Security Bit
- N** - (1) T45 Torx Security Bit
- O** - (16) 3/8" X 2-1/2" Button head Security Screws
- P** - (32) 3/8" Washers
- Q** - (16) 3/8" Stainless Nuts
- R** - (4) 1/4-20 X 3/4" Bolts
- S** - (8) 1/4 Washers
- T** - (4) 1/4-20 Keys Nuts
- U** - (12) M8 Security Screws
- V** - (12) M8 Lock Washers
- W** - (10) 10-24 X 1/2" Hex Screws
- X** - (16) 3/8 Lock Washers



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Media Player Parts

- A** - Media Player Box
- B** - Thermal Controller (1)
- C** - 12 Volt Adapter (1)
- D** - 2" Pie Grommets (4)
- E** - 1-1/2" Pie Grommets (2)
- F** - 1-1/4" Pie Grommets (2)

- G** - 1/4-20 X 3/4" Bolts (6)
- H** - 1/4 Lock Washers (6)
- I** - Gasket & Plate Assembly (2)
- J** - 10-24 Keps Nuts (4)
- K** - Triangle Tools (for Door Locks) (2)



A



B



C



D



E



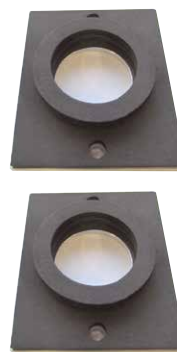
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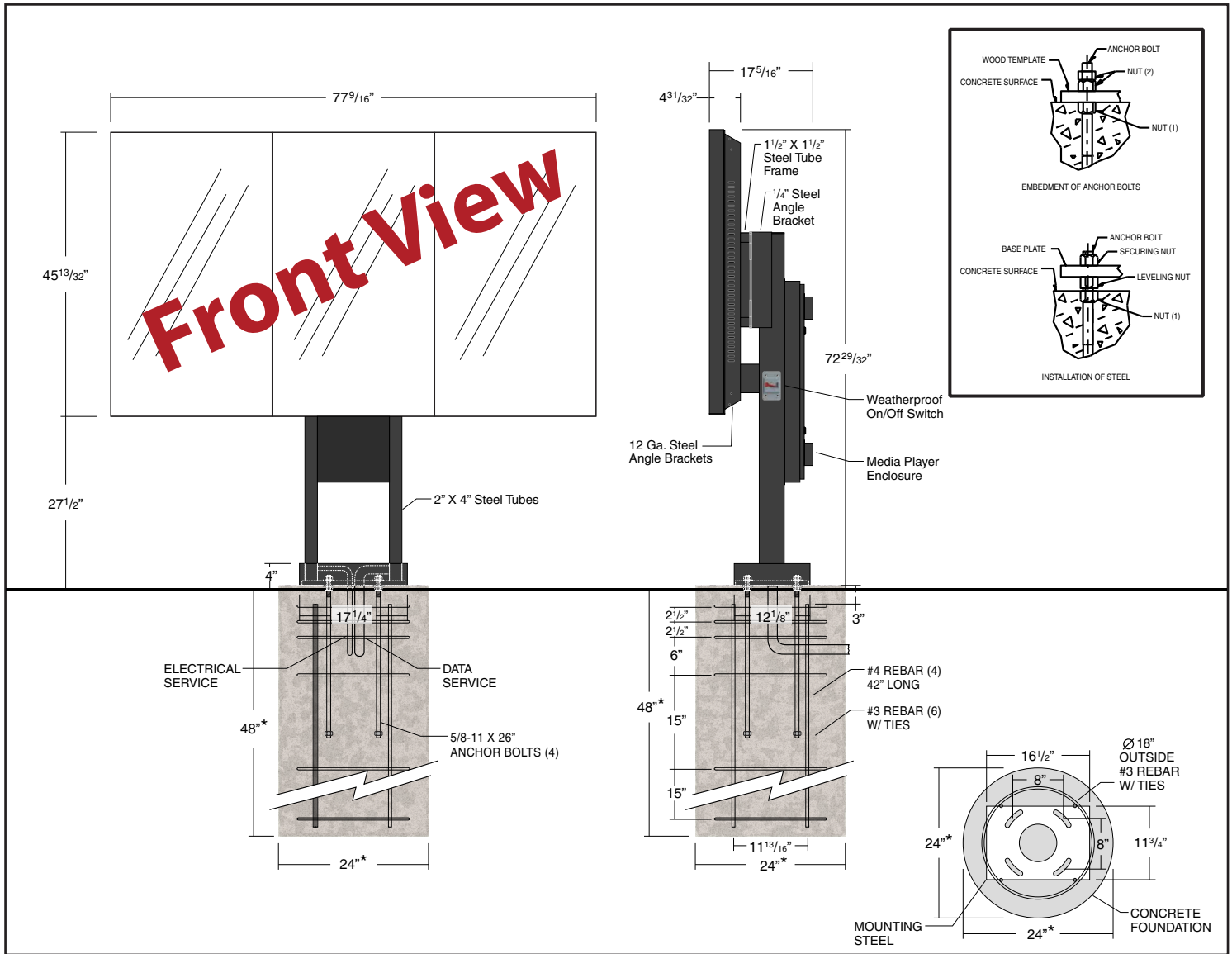
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***NOTE: These are approximate foundation measurements. The soil bearing capacity at the erection site must be considered when designing the foundation. The sign manufacturer is not able to predetermine the specific needs of each location. Consult a local engineer for design specifications.**

***NOTE: This is a suggested plan. Local requirements may exceed this design. The contractor is responsible to verify this plan.**

- 1 Dig hole to the minimum length, width and depth as depicted above. Use template provided (aligned as shown above) and place the anchor bolts in the hole. Brace to prevent movement. Position electrical and data conduit as shown. Fill hole with concrete.

NOTE: Prior to concrete drying, use the anchor bolt template to verify:

- **Anchor bolt plumbness - using a level (Some anchor bolts have been set with the bolts leaning outward. This results in the base of the bolts being on pattern, but the tops being too far out of pattern for the plate to slide over.)**
- **Anchor bolt spacing is still at 8".**

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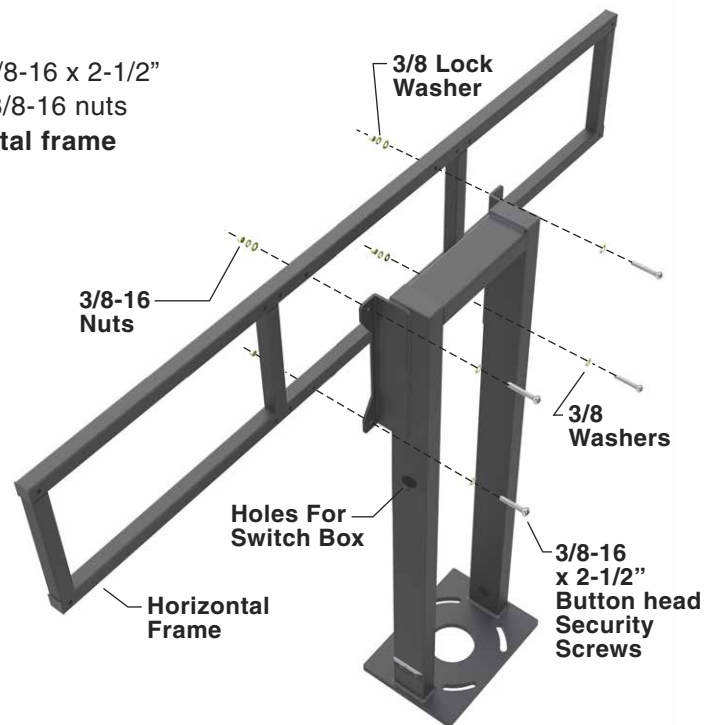
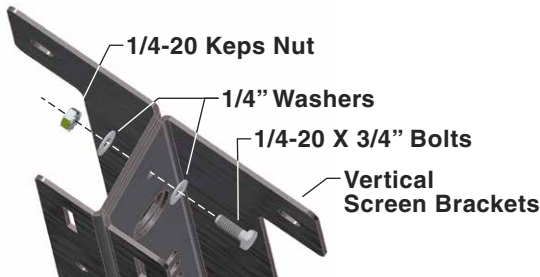
2 When concrete is dried remove the template from the concrete base. Clean anchor bolt threads and run one nut and washer onto each bolt which will be used to level the structure.

3 Lower the mounting steel onto the anchor bolts making sure the holes for the switch box are facing as shown in the picture below right. Also make sure the electrical and data conduits are separated in their specific sides of the divided tube as shown in the picture on the previous page. Run one nut and washer onto each anchor bolt to secure. Do not tighten. With the aid of available leveling device, adjust leveling nuts so structure is level and plumb. Tighten the securing nuts.

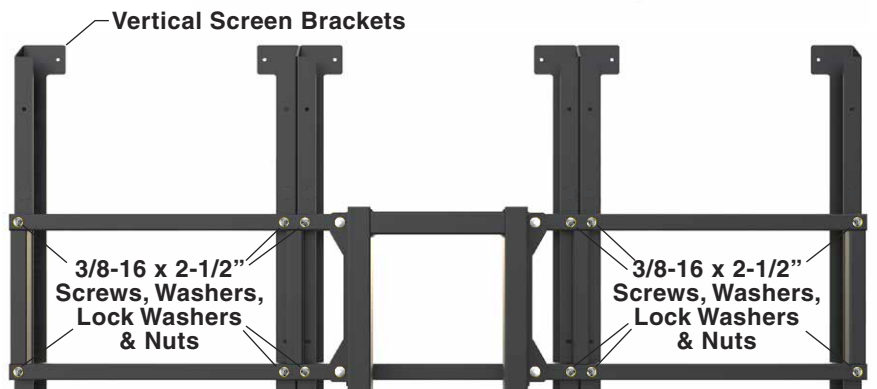
4 IMPORTANT: Prior to tightening the securing nuts, orient the mounting steel to the proper viewing angle for the fully installed menu board.

5 Secure the horizontal frame to the mounting steel with (4) 3/8-16 x 2-1/2" button head screws, (8) washers, (8) lock washers and (4) 3/8-16 nuts as shown at right. NOTE: Make sure to level the horizontal frame before completely tightening it.

6 Fasten (2) sets of the vertical screen brackets together using (2) 1/4-20 x 3/4" bolts, washers (4) and Keps nuts per set at the top and bottom of the brackets.



7 Secure the vertical screen brackets to the horizontal frame with (2) 3/8-16 x 2-1/2" button head screws, (4) washers, (4) lock washers and (2) 3/8-16 nuts for each bracket. NOTE: The bottom of the brackets have a ledge for the LCD screens to sit on.



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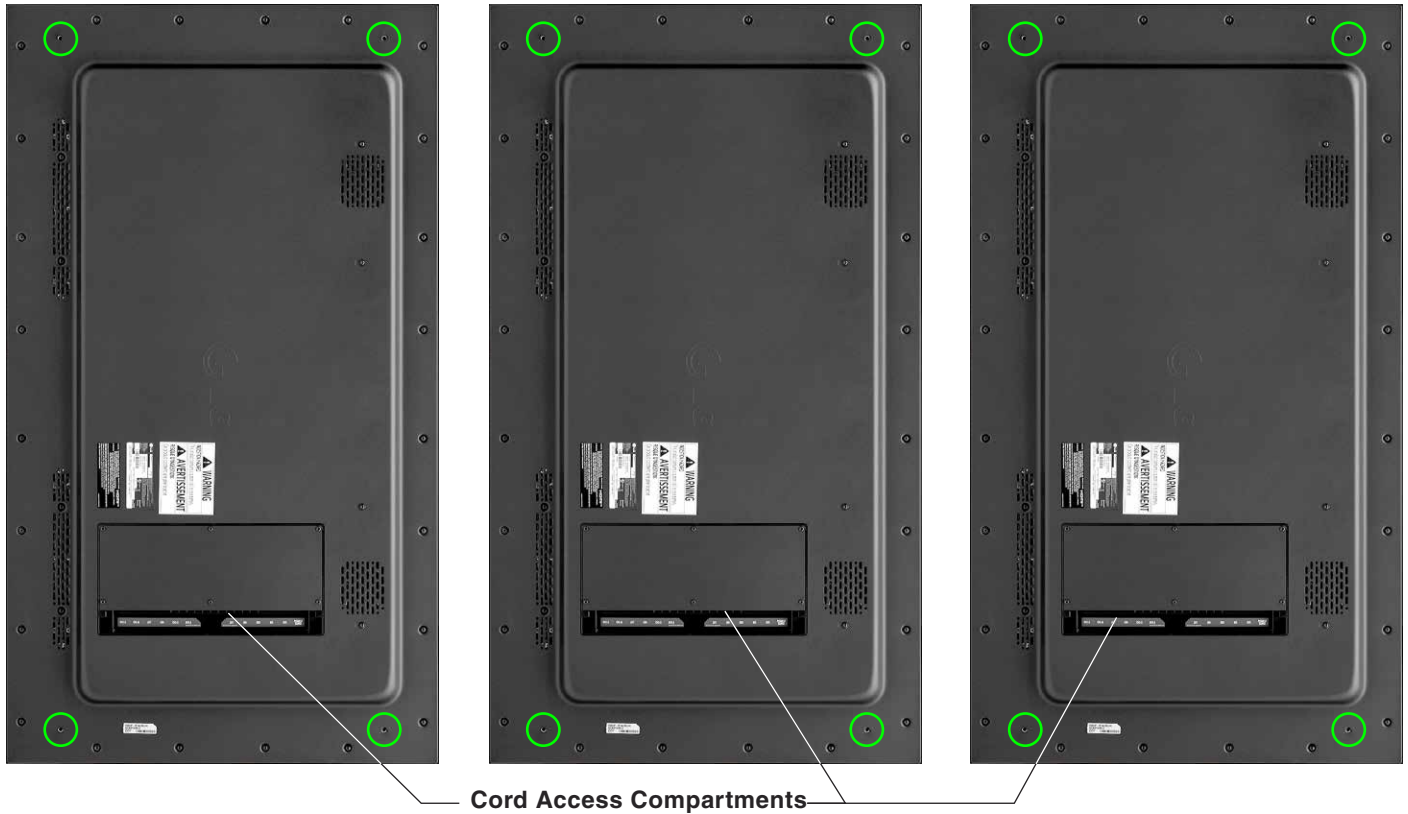


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8 Unpack the (3) LCD screens. Set the power cord and remote from each screen aside. Remove the film off of each LCD screen. Remove the (4) mounting screws from each screen (**See mounting screw locations below**). **NOTE: The hardware kit includes new M8 security screws and lock washers (parts Q & R) that will be used to mount the LCD screens.**

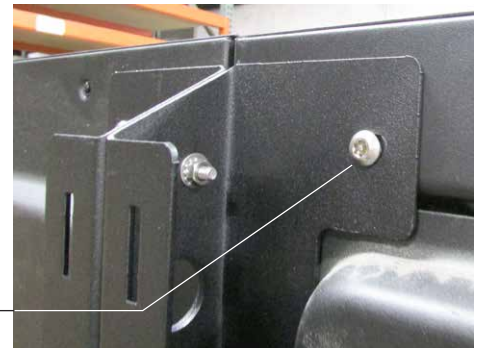
9 Remove the cord access compartment covers from each LCD screen and set them and their screws aside.

 = Mounting Screw Locations



10 Starting with the center screen, set each screen on the ledge of the vertical brackets one at a time. Have one person hold the screen while another secures the screen in place with the **NEW** (12) T40 M8 x 1.25mm screws and lock washers provided. **Make sure the cord access compartments are at the bottom.**

New T40 M8 X 1.25mm Screws & Lock Washers



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NOTE: SEE THE WIRING DIAGRAM FROM STRATACACHE BEFORE CONTINUING.

- ⑪ Attach the power and data cables to the back of the LCD screens. Re-attach the cord access compartment covers to the LCD screens. Run the cords from the two outside screens to the middle screen via the 1-1/4" access hole in the vertical screen brackets.
- ⑫ Place the center wire way panel (with (2) plastic grommets) into the slots on the bottom of the (2) center vertical screen brackets. Leave the panel flipped open.



- ⑬ Run the cables out of the center holes in the panel (Electrical cables to the left and data cables to the right).
- ⑭ Attach the left and right wire way panels, making sure the cables are covered. Leave the panels flipped open.
- ⑮ Unpack the media player box. Unlock the (2) locks and open the door. Remove any packing material from inside the electrical compartment.

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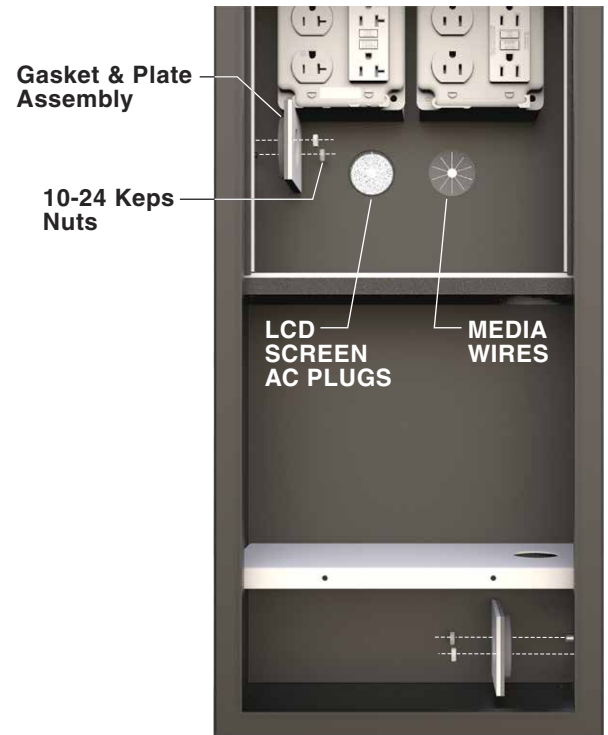
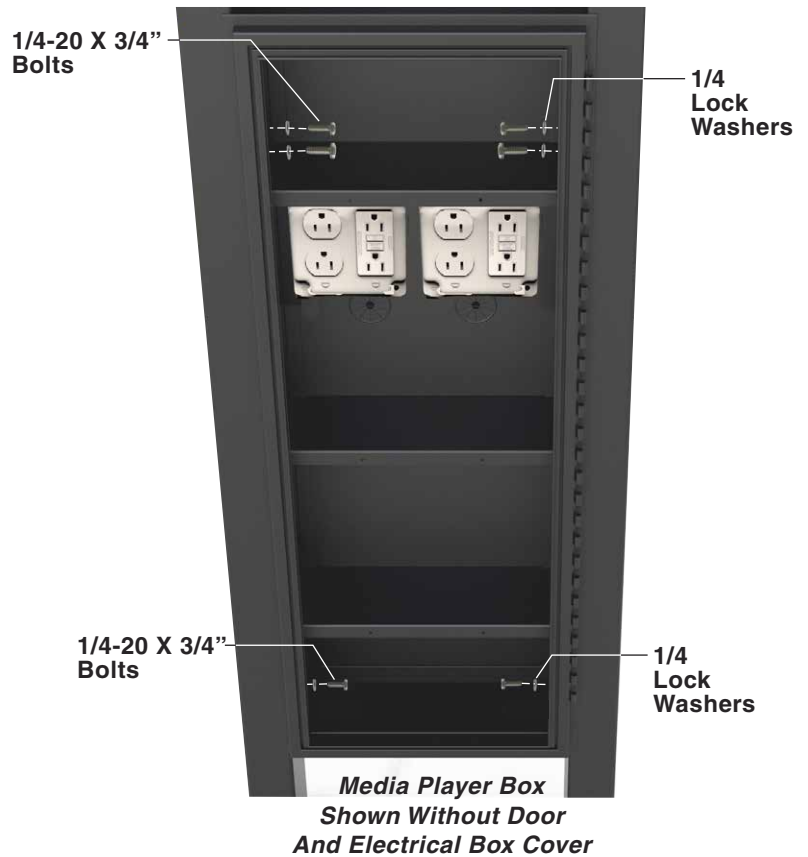


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16 Hold the media player box up in place between the (2) vertical tubes. The door will be on the right side.

17 Secure the media player box in place with the (6) 1/4-20 X 3/4" bolts and lock washers (4 on top and 2 on the bottom). Remove the cover to the electrical compartment by removing the (4) 10-24 x 1/2" screws that hold it in place. Set the cover and the screws aside.

18 Attach the (2) gasket & plate assemblies from the inside of the media player box. Secure in place with (2) 10-24 Keps nuts each.



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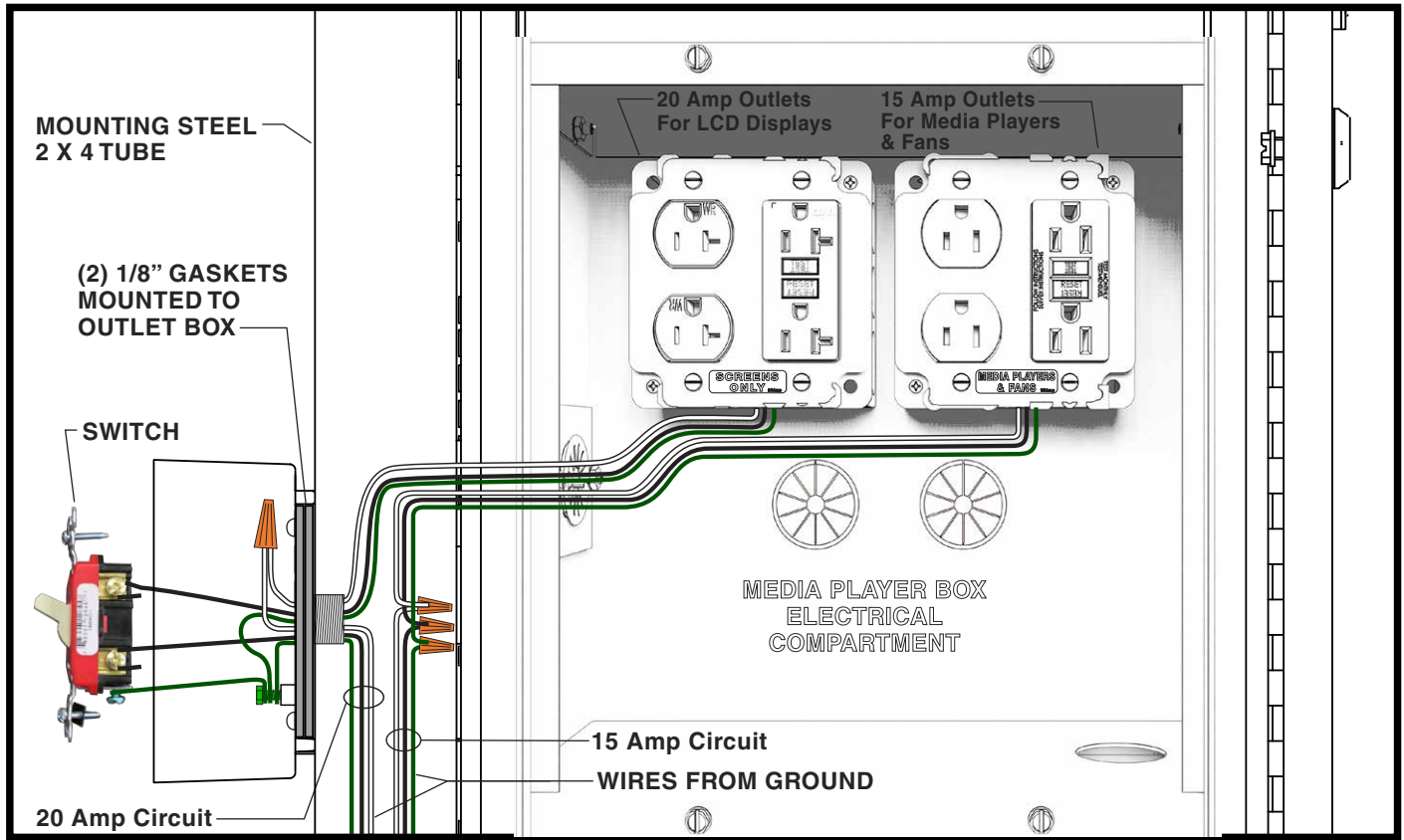
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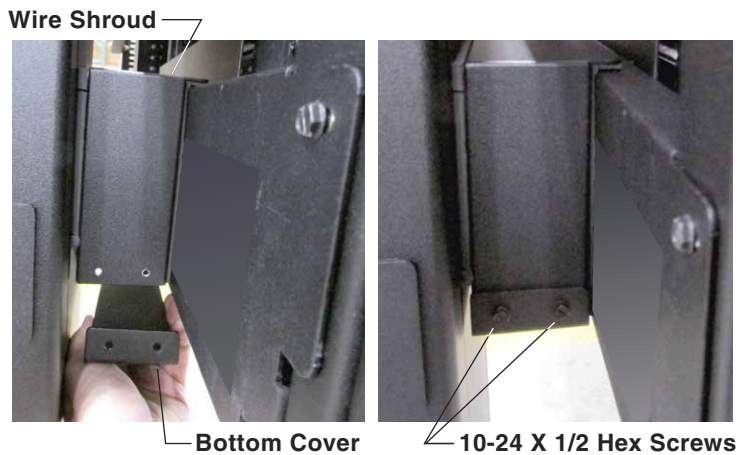
- 19 Attach the (2) 1/8" switch box gaskets to the back of the switch box, making sure to line up the holes in the gaskets with the holes on the back of the box. Stack the gaskets one on top of the other. Attach the switch box onto the mounting steel with (2) 10-24 x 1/2" hex screws. Wire the assembly per the diagram below. **NOTE: When making electrical connections, comply with all applicable national, state and local codes.**



- 20 Attach switch and switch cover to the switch box.

- 21 Close all wire way panels and secure in place with the 10-24 X 1/2" hex head screws.

- 22 Place the wire shroud over the wires in between the middle wire way panel and the media player box. (Estimate the center location left and right). Secure the bottom cover in place with the (4) 10-24 X 1/2" hex screws.



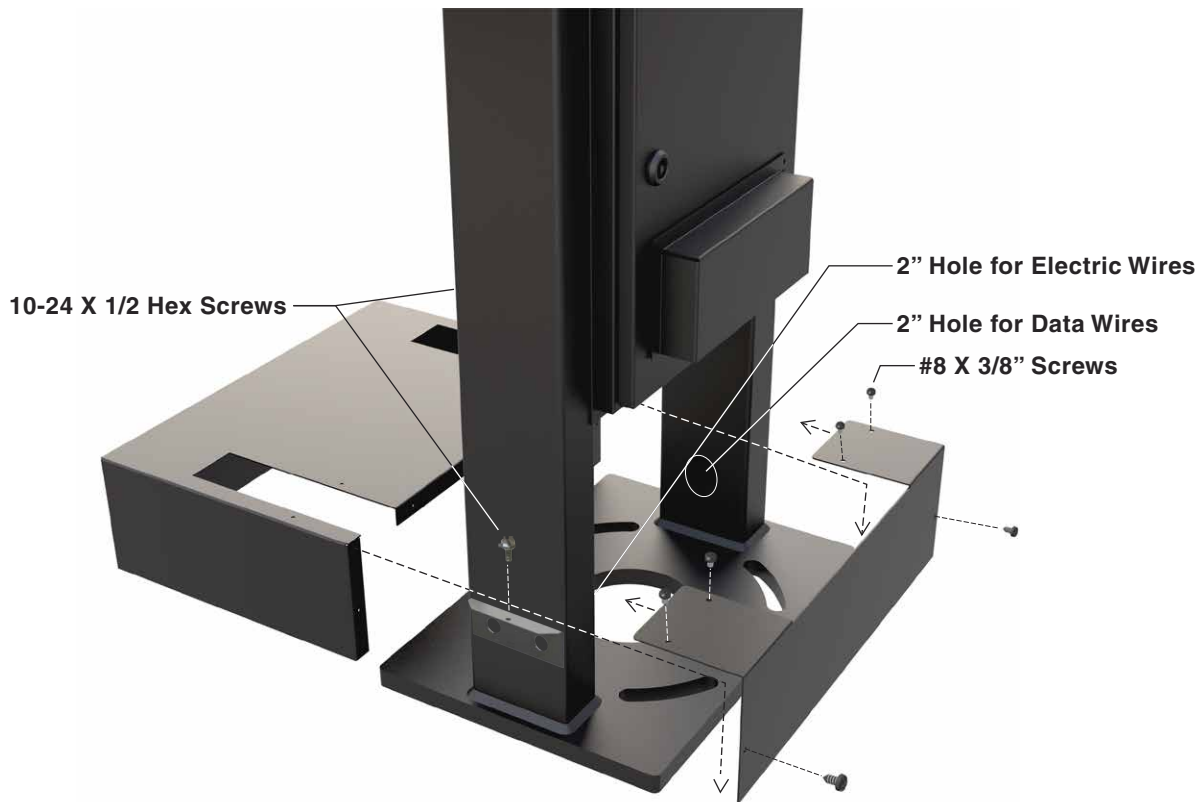
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- 23 Take (2) of the 2" pie grommets from the Media Player hardware kit and place (1) of them around the data cables and snap it into the 2" hole at the bottom left of the mounting steel. Take the other 2" pie grommet from the Media Player hardware kit and place it around the electric wires and snap it into the 2" hole at the bottom right of the mounting steel.
- 24 Open the box that contains the anchor bolt cover and remove the (6) #8-3/8" screw that hold the cover back piece in place and set them aside.
- 25 Slide the anchor bolt cover over the mounting steel base so that the opening is to the back. Place the cover back in place matching the holes in the cover back to the holes on the anchor bolt cover.
- 26 Secure the cover back in place with the (6) #8 - 3/8" screws previously removed and (2) 10-24 X 1/2" hex screws.



- 27 Start pulling the electrical cord plugs from the LCD displays into the media player compartment through the left access hole (hole closest the switch).

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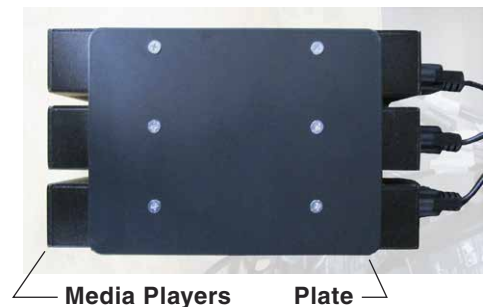
28 Plug the (3) cords into the 20 amp outlet on the left (outlet closest to the switch).



29 Pull the data cables (one at a time) from the LCD displays into the media player compartment through the right access hole. Run the (3) serial cables through the hole in the compartment box before running the (6) HDMI cables. Snap the (2) 1-1/2" pie grommets into both 1-1/2" holes in the media box back.

30 Continue pulling the cables down through the middle tray and into the lower media player part of the box. Run the (3) serial cables through the hole in the compartment box before running the (6) HDMI cables.

31 Attach (3) media players (by others) together with plates and screws supplied. Place the media players on end with the power switches to the left side of the compartment box.



32 Connect the HDMI and serial cables to the media players. Plug the (3) media players into the 15 amp outlet.



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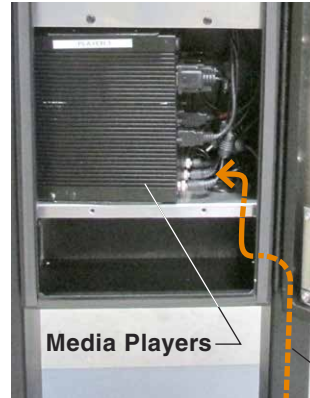


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33 Plug the fans into the thermal controller. Plug the 12 volt adapter into the thermal controller. Remove the clear plastic cover from the end of the thermal controller sensor. **Make sure the switch is set to TC.** Place the thermal controller at the top of the electrical compartment and plug it into the 15 amp outlet (the outlet furthest away from the switch) **inside** the electrical compartment.



34 Pull the CAT6 cables up through the right side of the mounting steel 2 X 4 tube and into the compartment with the media players. Place one of the 2" pie grommets around the cables coming into the compartment with the media players and snap the grommet into the bottom tray. Make all the necessary connections.



CAT6 Cable Direction

35 Place one of the 1-1/4" pie grommets around the electrical wires coming in from the switch box and snap it into the 1-1/4" hole. Take the other 1-1/4" pie grommet and place it around the data cables coming into the bottom right of the media player box. Snap the grommet into the 1-1/4" hole.

36 Place the last 2" pie grommets around the wires going through the tray in the electrical compartment and snap it into the 2" hole in the tray.

37 Replace the cover to the electrical compartment making sure all the wires are safely tucked inside. Secure with the screws previously removed. **NOTE: The electrical wires for the fans will run between the cover and the electrical box, under the foam gasket of the cover.**



Electrical Compartment Cover

38 Make sure all cables are inside of the media player housing and close and lock the door.

39 Restore the power to the digital drive thru unit.

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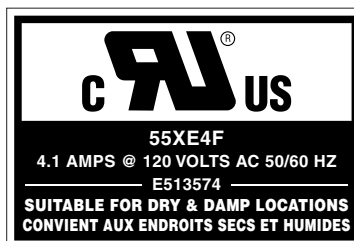
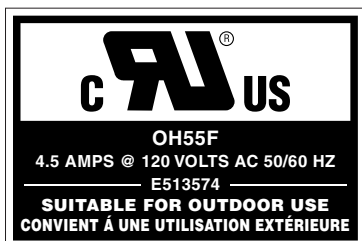


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! NOTICE TO INSTALLER !

INFORM INSPECTOR

Recognized CUR Label



Is Located on Outside of the LCD Cartons.

KEEP ALL LCD CARTONS UNTIL EXAMINED BY INSPECTOR

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Digital Menu Board Screen and Accessory Media Player Box Maintenance Guide

Screens:

- 1) **Cleaning the Protective Glass**
 - a. **Use water and a dry cloth to clean the protective glass. Wipe with a clean cloth.**
 - i. **To remove tough stains, wipe using a cloth with a small amount of ethanol based cleaner.**
- 2) **Cleaning the Air inlet and outlets**
 - a. **Use a brush to remove any debris from the inlet and outlet openings.**
 - i. **To remove tough stains, wipe using a cloth with a small amount of ethanol cleaner.**
 - ii. **If washing with water, keep the pressure below 0.5 bar.**
- 3) **Do not disassemble the product**
 - a. **The unit is designed to resist water and dust.**

Accessory Media Player Box:

- 1) **Cleaning the Accessory Media Player Box**
 - a. **The metal surfaces of the steel frame and box can be cleaned with a mild solution of dish washing liquid and water. Rinse with clean water and wipe with a clean cloth.**
 - b. **Periodic cleaning of the intake filter may be required if dust build up is occurring.**
 - i. **Open the door and loosen the nuts that hold the filter frame to the door. Remove the filter. Clean and vacuum any loose debris.**
 - ii. **Wash with warm water and mild soap, or spray with a cleaner, letting it soak for 10-15 minutes.**
 - iii. **Rinse thoroughly, air dry completely to prevent mold.**
 - iv. **Reinsert the filter and re-tighten the nuts to the filter frame, close and lock the door.**

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