

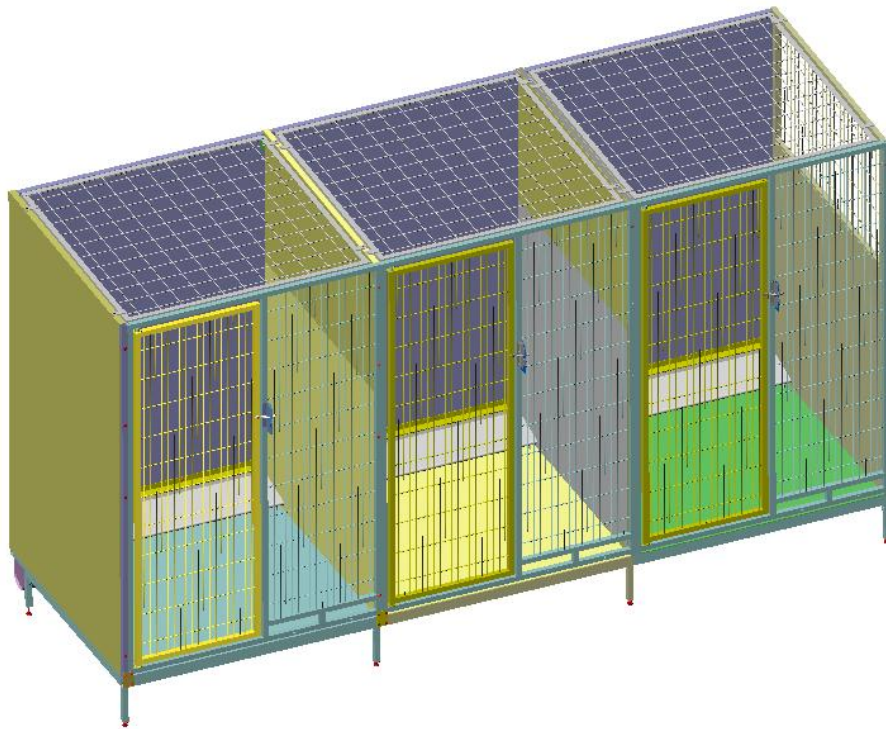


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Single Kennel Installation on Raised Floor

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INTRODUCTION

Thank you for placing your trust in T Kennel Systems. T Kennel values you as a customer and will do everything we can to provide quality products and service, to assure your experience with T Kennel is a pleasant one.

The animal kennel system you have purchased has been precision made and shipped according to your instructions. Once assembled, your system will look custom built and especially made for your animal holding area.

For your personal safety, the safety of your workers, the public safety, and to maintain your kennel system it is very important to read and follow all instructions.

KENNEL INSTALLATION MANUALS ARE AVAILABLE FOR:

Single Kennel Installation on Raised Floor

Double Kennel Installation on Raised Floor

Single Kennel Installation on Concrete Floor

Double Kennel Installation on Concrete Floor

SAFETY FIRST:

| ▲ | CAUTION | Kennels are heavy and precautions must be taken to protect from personal injury. Get help when lifting heavy parts.










| ▲ | CAUTION | Edges of steel and stainless steel kennels and parts may be sharp. We recommend that you always wear protective gloves during unloading, inspection and assembly.

| ▲ | WARNING | T Kennel products are designed for animal use only. Never allow a person in or on your Kennel Assembly.



A. Tools Required (Not Included)

This list of tools is the minimum required to install/assemble your Kennels. Depending on your facility and kennel configuration, you may need additional tools and/or specialty tools.

 <p>RATCHET/SOCKET WRENCH WRENCH 5/16" AND 7/16"</p>	 <p>C-CLAMP VISE GRIP</p>
 <p>7/16" COMBINATION WRENCH</p>	 <p>4 FT. LONG LEVEL</p>
 <p>5/16" HEX HEAD DRIVER</p>	 <p>SAUSAGE GUN Only required if Sealant Sausages are provided</p>
 <p>SCREW GUN</p>	 <p>WIRE CRIMPING TOOL 3/32" FERRULE Only required for Transfer Door application</p>
 <p>CAULKING GUN</p>	 <p>WIRE CUTTER Only required for Transfer Door application</p>

Other Tools: Tape Measure, Straight-Line (Laser or String), Pry-Bar, Screw Driver, Hammer, Chalk Line, Saw Zall with Bi-Metal Blade, Hammer Drill with concrete Bit, Tin Snip and Hacksaw.

B. Kennel Assembly Hardware

Hardware pictured below is for the assembly of T Kennel's standard Single Kennel System. Your hardware may vary depending upon your kennel configuration, building design, etc. Please feel free to call our Sales Department or Tech Services Department if you have any questions.



041.0069.02
STRIKER BAR



731.0000.00
LATCH ASSEMBLY-LH



041.0087.00
BRACKET-LH



041.0087.01
BRACKET-RH



061.1010.00
#12X1 TEK SCREW



061.1020.01
#12X2 TEK SCREW



062.2515.00
1/4-20X1.5 CAP SCREW



064.2500.22
1/4-20 NYLOCK NUT



041.0071.00
4-HOLE PLATE



062.2510.22
LEG LEVELER 1-1/2 LG



051.0000.22
CAP PLASTIC 1X2



060.5000.00
SCREW 1/2 FL WASHER



178.0008.00
ADHESIVE E6000, TUBE
CAULKING GUN REQUIRED



SIKAFLEX-1A, TUBE
CAULKING GUN REQUIRED



SIKAFLEX, SAUSAGE
SAUSAGE GUN REQUIRED



016.0001.00
SIKAFLEX PRIMER



731.0000.01
LATCH ASSEMBLY-LH
FOR GLASS GATE PANEL



182.00007.00
DRAIN PATCH



KING POST

C. Floor and Drain Assembly

1. Stand each floor in an upright position (**Figure 1**) to install leg-leveling screws (**Figure 2**) into legs of all floors.



Figure 1

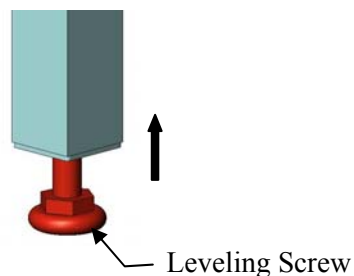


Figure 2

Floor Identification: Please familiarize yourself with the different types of floors (**Figure 3**) that are used in a run of kennels.

Start Floor:

All Kennel runs will begin with a Start Floor. This floor will have a total of 4 or 6 legs placed on both sides of the floor frame and will stand on its own. This floor is 1/2" wider than the width of your kennel gate panel. Example: A 48" wide kennel will require a 48 1/2" Start Floor. The Start floor is only used once per row of kennels and is always placed on the left hand side. **Your kennels are designed to be assembled working left to right.**

Center Floor(s):

Runs of 3 or more kennels will have a Center Floor(s). This floor will have 2 or 3 legs located on the right hand side of the floor when viewed from the front. This floor will be the exact width of your kennel gate panel. Example: A 48" wide kennel will require a 48" Center floor.

End Floor:

Runs of 2 or more kennels will have an End Floor. This floor will have 2 or 3 legs located on the right hand side of the floor when viewed from the front. This floor is 1/2" wider than the width of your kennel gate panel. Example: A 48" wide kennel will require a 48 1/2" End Floor. The End floor is only used once per row of kennels and is always the last floor in the row located on the right hand side.

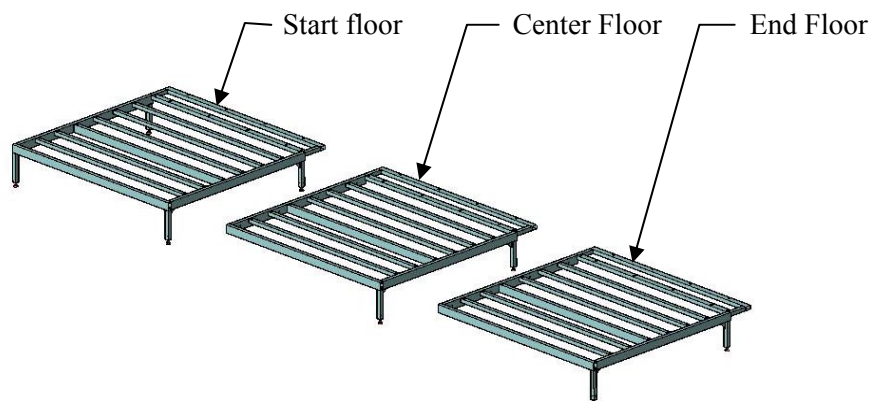


Figure 3

Note: Be sure to keep the top and front surfaces flush using C-Clamps to hold the floors in place until you have installed 2" Tek screws. Make sure to leave enough space away from the wall to attach the drain at the back of the kennel.

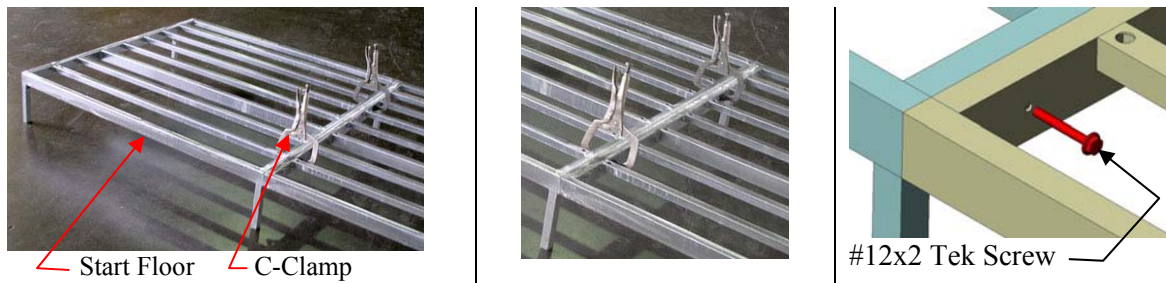


Figure 4

2. Arrange floors starting with the Start Floor (four or six-legs) on the far left. Attach a Center Floor (two or three legs) to the first Start Floor as shown in (**figure 4**) using 2" Tek Screws at the pre-drilled holes. Use the same method to attach all the remaining floors with two or three-legs.

3. Lay out the trench drain section(s) on the floor behind the raised kennel floors. The drain sections are configured according to your facility layout sign-off drawing. Please check to make sure your drain location matches with the sign-off drawing. Begin trench drain installation by locating the drain section with the welded Stub Outlet, and lining up the stub outlet facing your floor drain (**Figure 5 & 8**).

Each additional section needs to overlap 1-1/2". The shallower section is always placed inside the deeper section (**Figure 5A, 5B**). Proper overlapping the drain sections will prevent leaking.

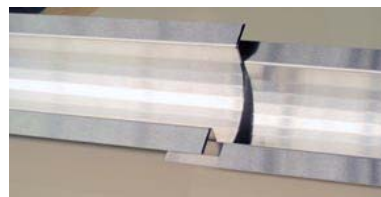
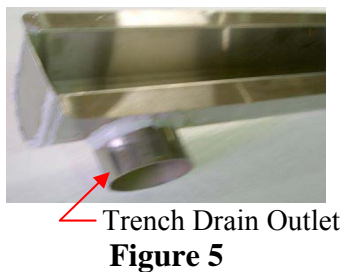


Figure 5A

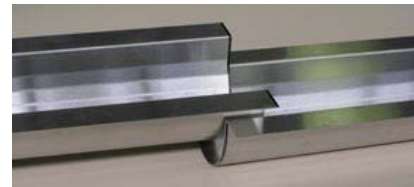


Figure 5B

After laying the drain sections properly, test fit them to the kennel floors. Clamp the drain assembly into place at the underside of the floors. Drill holes in the flanges of the drain assembly by using as a guide, the pre-drilled holes in the floors for the mounting screws (**Figure 7**). Use 3/16" cobalt drill bit to drill holes for #12 Tek Screws, **but do not screw into place yet**. The drain flanges may require notching to fit around the rear floor legs. (**Figure 6**) Use a pair of tin snips or other cutting tool to cut the notch. After you are satisfied with the drain assembly fit, unclamp it and lower back to the ground.

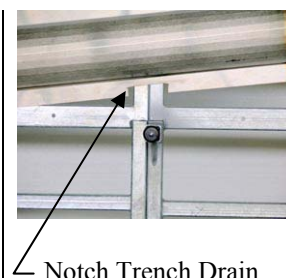
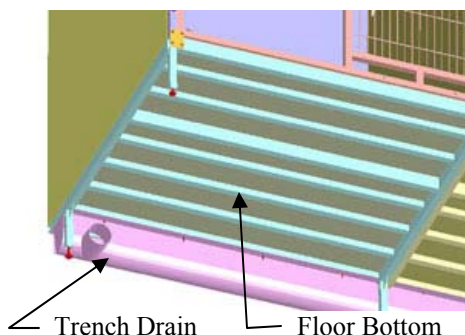


Figure 6

4. Apply a generous bead of Sealant (Sikaflex) (**J. Kennel Assembly Hardware**) where the trench drain overlaps 1-1/2 inch (**Figure 7**). Next, apply a bead of sealant along the top of both sides of the drain flange. This will provide a seal between the drain and the floor frame when the drain sections are re-attached. Once the drains are re-attached to the floor frames, smooth out any sealant at the drain overlap areas as shown in the (**Figure 7**).

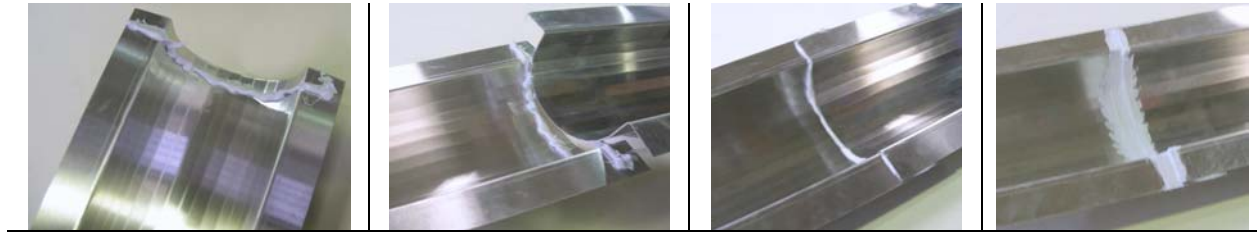
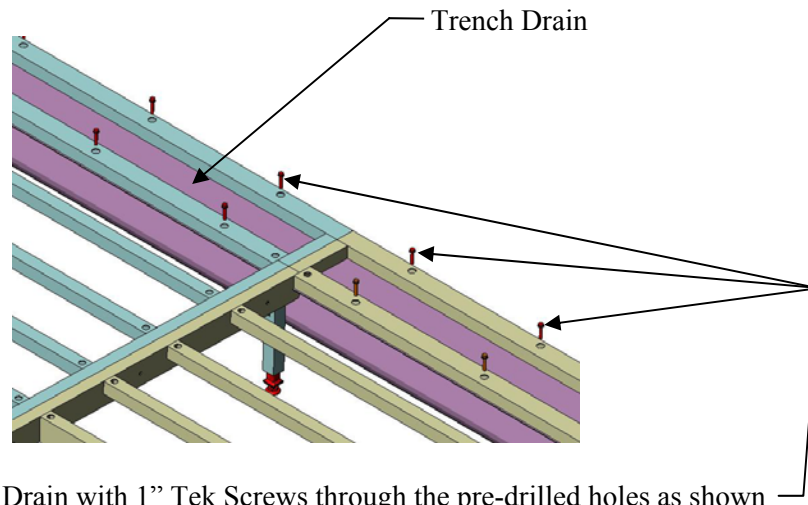


Figure 7

5. Again, clamp the sealed trench drain assembly into place and attach with 1" Tek screws from the top as shown in (**Figure 7A**).

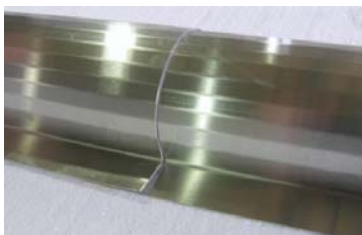


Attach Trench Drain with 1" Tek Screws through the pre-drilled holes as shown

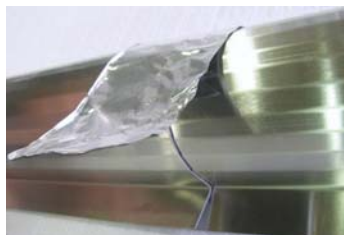
Figure 7A

Drain Patch installation

Included in the hardware kit for your raised floor kennel system are 3 1/2" x 8" butyl patches to be used as an extra measure to prevent leaks where the trench drain sections overlap. The butyl drain patches need to be installed after trench drains are installed and secured into place, but before the PVC flooring is installed. You will have to reach through the floor frame and under the drain(s) to do this. Install the patch by peeling off the wax paper cover and pressing the patch firmly in place on the *OUTSIDE* of the trench drains at each spot where the drain sections overlap. Center the patch so that it equally covers the areas on each side of overlapping sections (**Figure 7C & 7D**).



Drain Overlapping Sections
Figure 7B



Drain Patch shown loose
Figure 7C



Drain Patch Fully Installed
Figure 7D

6. After installing the drains, move the floors into place (if applicable). Your plumber will make the final connection between the drain outlet and the sewer drain. **(Figure 8)**

Note: Your T Kennel system does not include the hardware or plumbing to make this final connection. You or your plumber must supply this per local plumbing code.

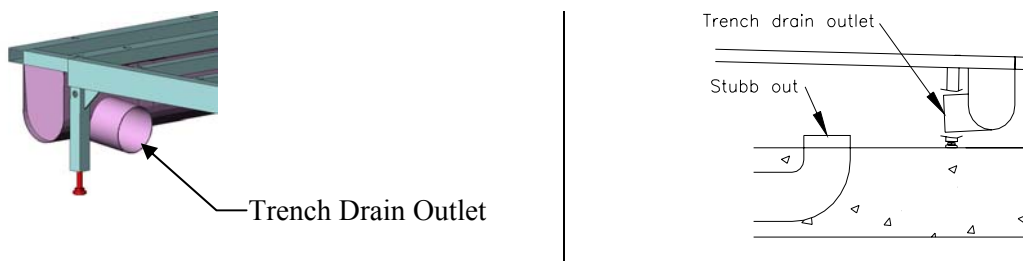


Figure 8

Note: When leveling floors from front to back, the floors must have a slope of 1/4 inch per foot. Be careful to maintain this slope for your kennel system **(Figure 9)**. The Level shown in the picture with 12" dimension is only the representation of slope of 1/4 inch per foot (12"). For example, if your kennel floor is 6' deep there should be a 1 1/2" (1/4" x 6 = 1 1/2") difference in height of the floor at the front than at the back.

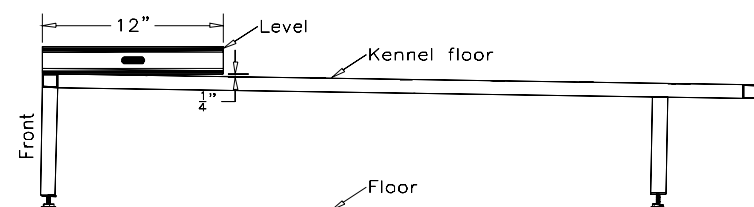


Figure 9

7. Using a carpenter's level, adjust each floor with leg leveling screws from the front and the backside so that all the floors are absolutely level from side-to-side only, allowing the 1/4 per foot slope from front to back.

8. After making the final plumbing connections and floor adjustments, prepare to attach the Acrylic PVC floor panels to the open kennel floor frames. Lay the PVC floor panels on the raised floors to make sure they fit properly, and then remove. Apply a generous bead of adhesive (**J. Kennel Assembly Hardware**) around the top surface perimeter and cross members of the floor frames **(Figure 10)**.

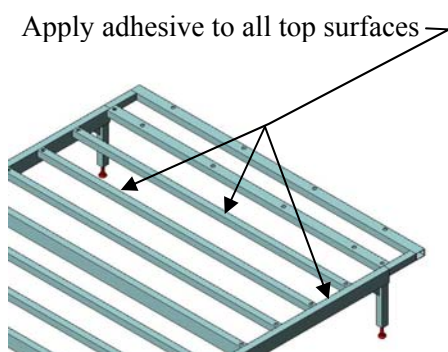


Figure 10

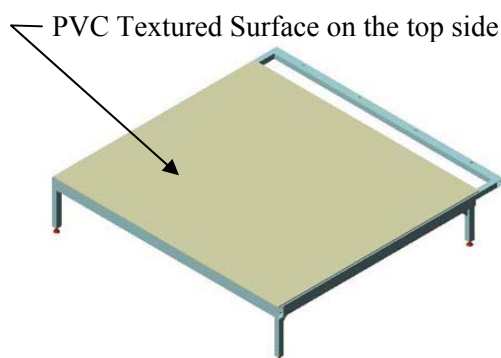
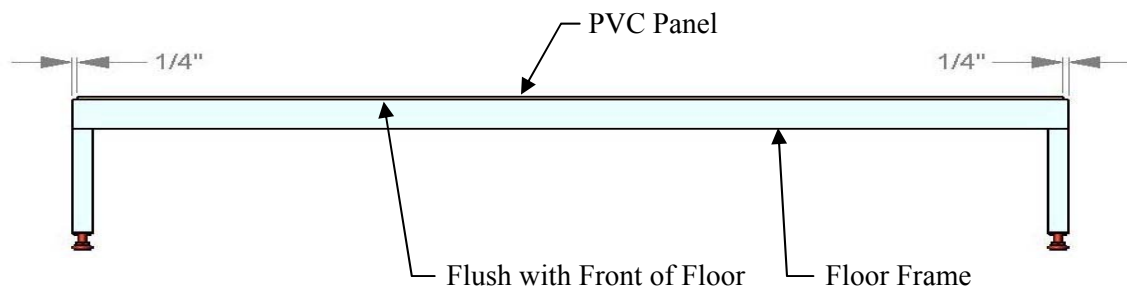


Figure 11

9. Place the pre cut Acrylic PVC floor panel textured side up on the open floor frame (**Figure 11**). Make sure the PVC floor panel lines up flush with the front edge of the floor frame. The Start and the End floors are 1/2" wider than the PVC floor panel so you must center the PVC panel to produce a 1/4-inch gap on either side of the floor (**Figure 12**). The PVC floor panel for the Center floors will fit flush on both sides.



Front View (Start and End Floors)

Figure 12

10. Apply even pressure to the Acrylic PVC floor panel to insure even adhesion. Remove excess adhesive from around the exterior edges with rag or putty knife.

D. King Post and Side Panel Assembly

(Note: The Kennel System is designed to assemble from left to right.)



King Post

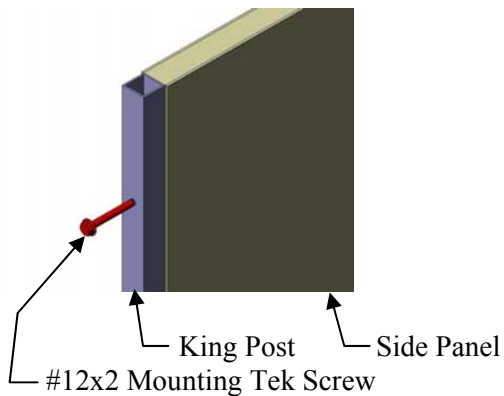


Figure 13

1. Attach a King Post to the first Side Panel on the far left using 2" Self-Drilling Tek Screws through the pre-drilled holes (**Figure 13**). The King Post should always mount to the shorter front end of the Side Panel.

Assembly Tip: The First Side Panel, King Post and Gate Panel are easier to assemble on the floor and then lifted into place.

Remove Door from each Gate Panel

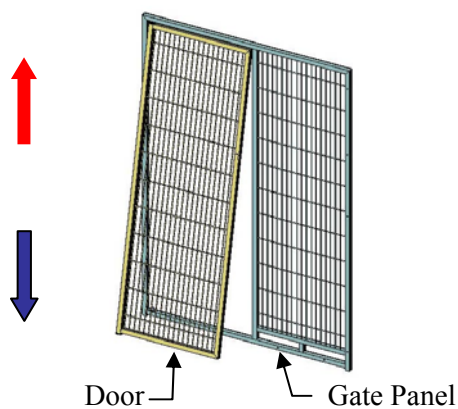


Figure 14

2. Locate the Gate Panels and remove the Door from each Gate Panel by slightly opening and lifting up on the door. Once the Door clears the hinge pin at the bottom, pull the bottom of Door toward you (**Figure 14**). Pull the top of the Door down until the top of the Door clears the top hinge pin.

Mark all of the Doors so that they match with the original Gate Panels. Put the Doors aside until all the Gate Panels are ready to attach.

E. Attach Gate Panel to the King Post

1. Set the first Side Panel (with King Post attached) on the left side of the first floor. Be sure the bottom of the panel slopes from the front to back of the Kennel. Have a helper hold it in place (**Figure 15**).
2. Attach the Gate Panel to the King Post using 2" Self-Drilling Tek Screws through the pre-drilled holes. Make sure that Gate Panel and King Post are flush up against each other (**Figure 16**).

Note:

For kennels with the optional Stainless Steel Gates, you must pre-drill a pilot hole for the 2" self-drilling Tek Screws. Using the pre-drilled holes as a guide, drill 3/16" hole into the King Post or Gate Panel you are installing. We strongly suggest using a Cobalt drill-bit for this step.

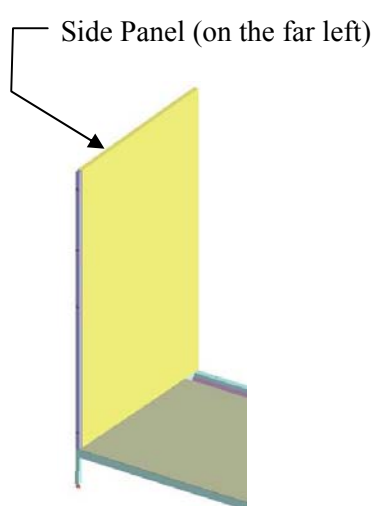


Figure 15

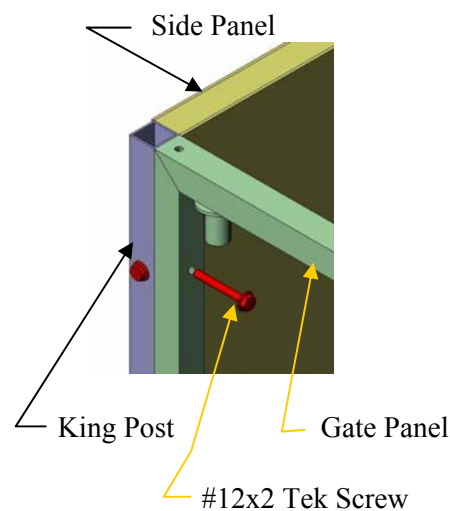


Figure 16

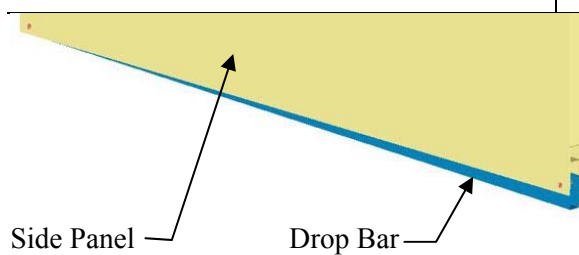


Figure 16a

Note: On standard Side Panels, the slope is $\frac{1}{4}$ " per foot. Refer to your layout to confirm floor slope.

To match the bottom of the Side Panel with the slope of the concrete floor, adjust the Drop Bar, (located inside the u-channel at the bottom of the side panel), by pulling it downwards. (**Figure 16a**). Make sure the Side Panel is level at the Top.

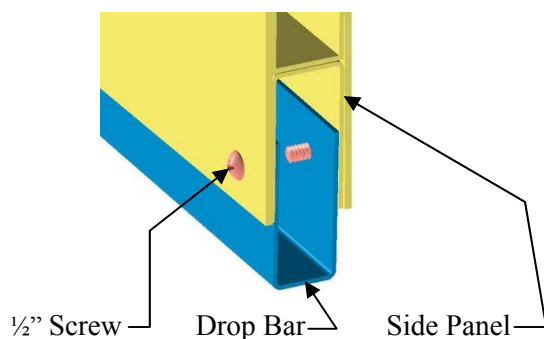


Figure 16b

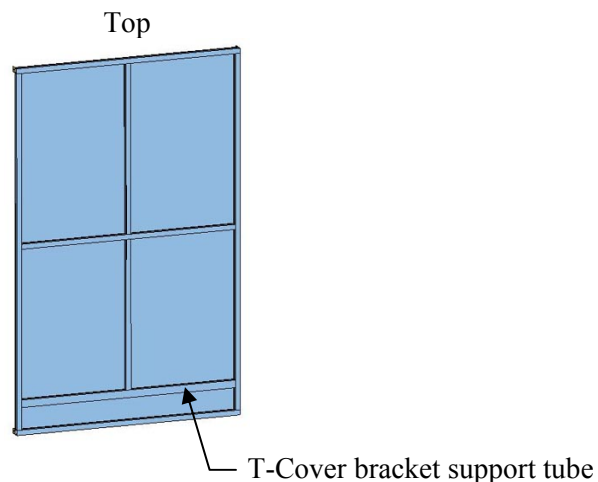
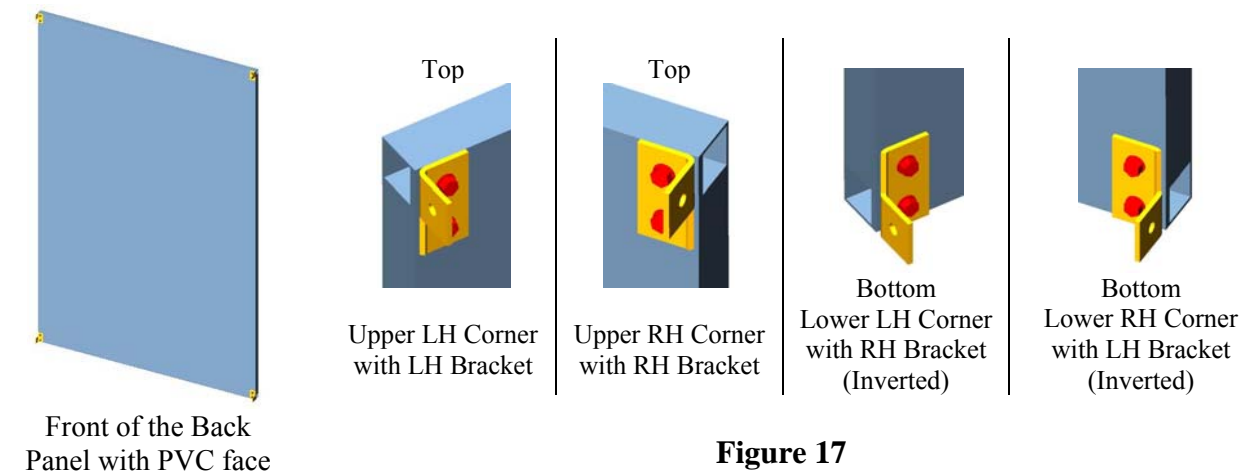
After making the final adjustment of the Drop Bar, secure it in place with $\frac{1}{2}$ " self-drilling screws on both sides of Side Panel at both ends as shown in (**Figure 16b**).

Field Note: If the floor is not uniform, the Drop Bar can be cut and adjusted to adapt to most common floor irregularities.

F. Attach Brackets to the Back Panel

Figure 17 shows the front side of the Back Panel with PVC that should face the inside of the Kennel. **Figure 18** shows the correct structural orientation with a view from the backside of the Back Panel.

1. Locate the Brackets (as shown) used to attach the Back Panel. The Bracket should have three drilled holes. Use 1" Tek Screws to attach the Brackets to the Back Panel, first by using the side of the Bracket where two holes are drilled. The upper Brackets should be flush with the top, and the lower Brackets should be flush with the bottom of the Back Panel (**Figure 17**).



View from backside of the Back Panel

Figure 18

2. After installing the Brackets, place the Back Panel inside at the back of the kennel, PVC facing towards the Gate Panel. This will eliminate the need to lift it over the top of the kennel when it is time to install. Make sure to install the Back Panel with the T Cover bracket support tube facing down as shown in (**Figure 18**). (Do not attach to anything at this time).

G. Attach Second Side Panel to the Gate Panel

Mount the second Side Panel to the Gate Panel using 2" Self-Drilling Tek Screws through the pre-drilled holes (**Figure 19 & 19A**).

Note: From Second Kennel on, the Gate Panels will attach to the preceding Kennels' Gate Panel.

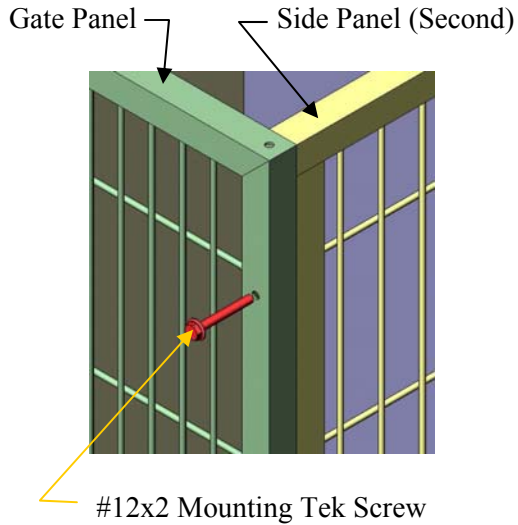


Figure 19

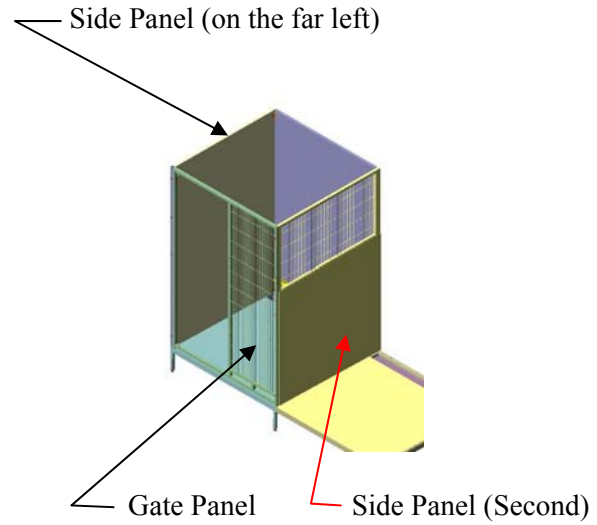
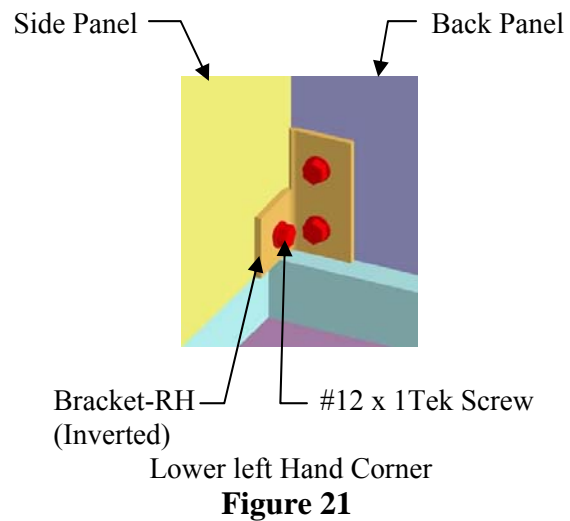
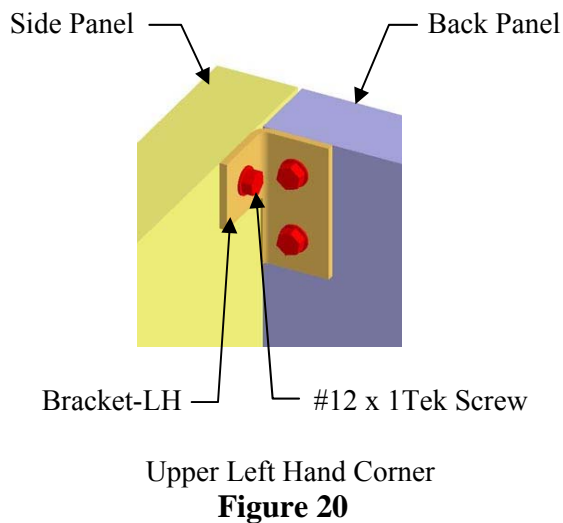


Figure 19A

H. Attach Back Panel to the Side Panels

Attach the Back Panel to the first Side Panel (**Figure 20 & 21**) using 1" Tek Screws. Attach Back Panel to the second Side Panel. Continue assembling the Kennels by repeating the steps in N, O and P.



I. Secure Gate Panel to Floor using 4 Hole Plates

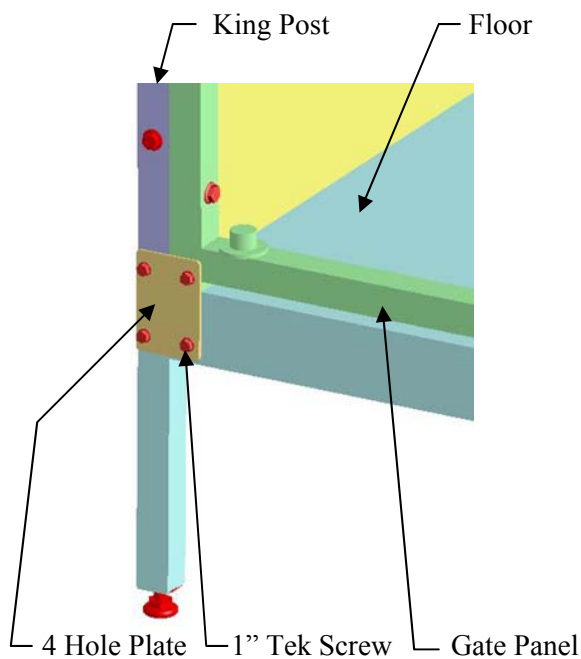


Figure 22

1. After all the Gate Panels are installed, locate the 4 Hole Plate. Attach the first 4 Hole Plate over the King Post and the first Gate Panel frame tube with (4) 1" Tek Screws as shown in **(Figure 22)**. The rest of the Plates will mount where each Gate Panel meets with another Gate Panel **(Figure 22A)**.

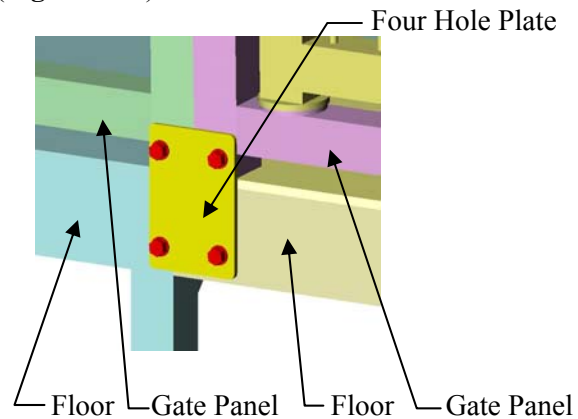


Figure 22A

2. After assembling the kennel system, locate the Four Hole Mounting Plate. Mount the first Four Hole Mounting Plate over the side of the Floor and the Side Panel on the front side of the kennel with (4) 1" Tek Screws as shown in **(Figure 23A)**. Then mount the next Four Hole Plate on the rear side of the kennel with (4) 1" Tek Screws as shown in **(Figure 23)**. Repeat the same instructions on the other side of the kennel system.

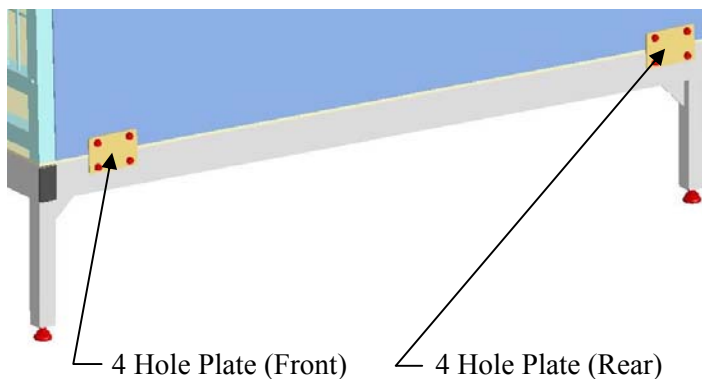


Figure 23

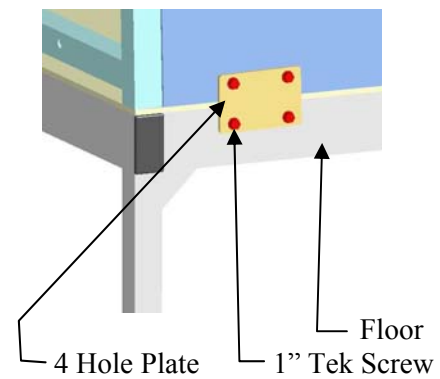
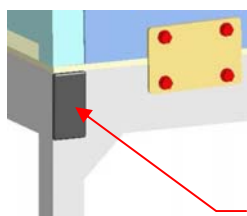


Figure 23A



Plastic Cap

Figure 23B

Plug open ends of tubing with Plastic Cap on each end of the kennel system as shown in **(Figure 23B)**.

J. Sealing Kennel Assembly

READ THIS ENTIRE SECTION PRIOR TO SEALING THE KENNELS. The goal is to start in the back of the kennel and work your way out. Having to walk into a freshly sealed kennel may compromise the sealant and possibly cause leaking.

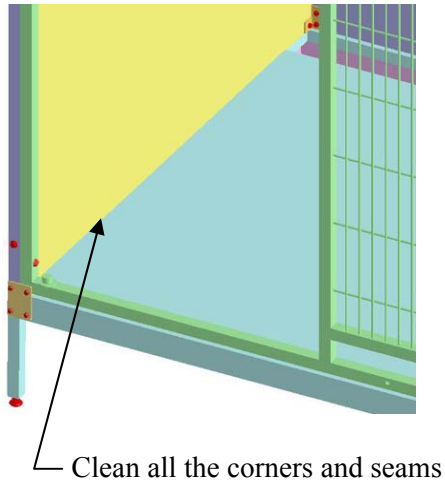


Figure 24

1. Use a primer or Isopropyl Alcohol (read health hazard information) to clean all the corners, cracks, edges, and areas that need to be sealed. This should remove any dust or oil that would inhibit good adhesion (**Figure 24**).

2. Cut the Sealant tube (**J. Kennel Assembly Hardware**) end off at a 60° angle (**Figure 25**). The hole should be about the diameter of a ballpoint pen. Use a coat hanger or longer pin to poke a hole in the Sealant tube to start the flow (**Figure 26**).



Figure 25



Figure 26



Figure 27

Sealing Tip: Running a strip of masking tape (**Figure 27**) approximately ¼" from either side of the seam to be sealed will help produce a professional looking caulking job.

3. Begin sealing at the back of the kennel. Seal the corners where the Side Panels meet the Back Panel, working top to bottom. Completely seal around the area where the kennel meets the Trench Drain (**Figures 28 & 29**). Smooth the sealant with the tip of your gloved finger so that there are no gaps or pinholes in the sealant. It may help to dip your gloved finger into a bowl of dish detergent to prevent sticking. After applying and smoothing the sealant with you finger, peel off the masking tape using caution not to smear the fresh sealant.

Seal the Side Panels to the floor working back to front. Smooth the sealant with the tip of your gloved finger so that there are no gaps or pinholes in the sealant.

4. Refer to the sealant manufacturer's directions for drying times. We strongly suggest waiting at least 72 hours for the sealant to cure completely before applying any water or using the kennels.



Figure 28



Figure 29

K. Install T Cover Bracket

To locate the T Cover Bracket, measure 7" from the bottom of the Back Panel to the top of the Bracket. Attach the Bracket to the Back Panel using 1" Tek Screws (**Figure 30 & 31**). Make sure the 1" Tek Screws hit the tube cross member of the Back Panel (**Figure 18**). The Bracket should be equally spaced from both ends of the Back Panel.

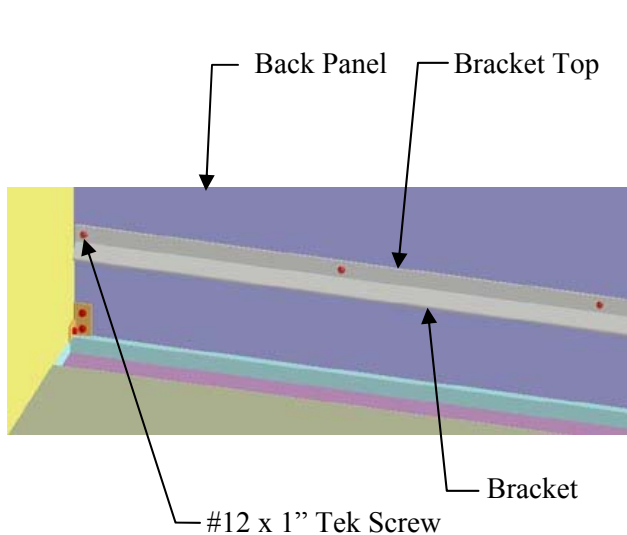


Figure 30

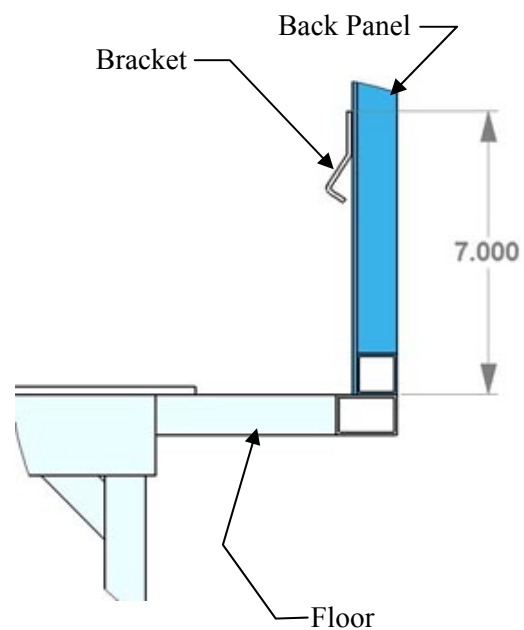


Figure 31 View without Trench Drain

L. Install Half T Cover

Hang the Half T Cover from the Bracket by tilting the Half T Cover back and up into the Bracket as shown in (**Figure 32 & 33**). The legs of the Half T Cover will touch the Floor and it will fully cover the trench drain.

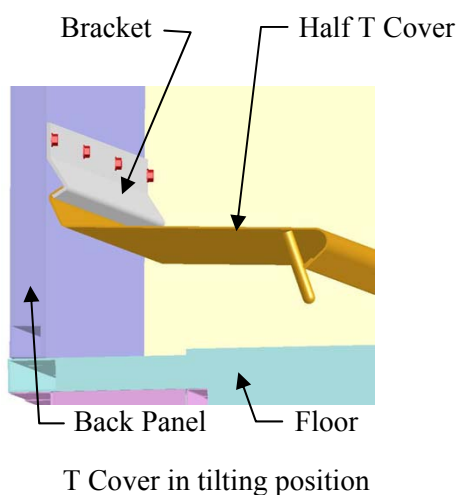
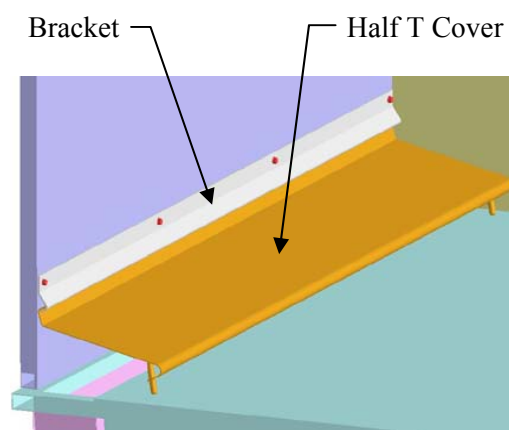


Figure 32



Half T Cover Installed

Figure 33

M. Install Striker Bar and Latch Assembly

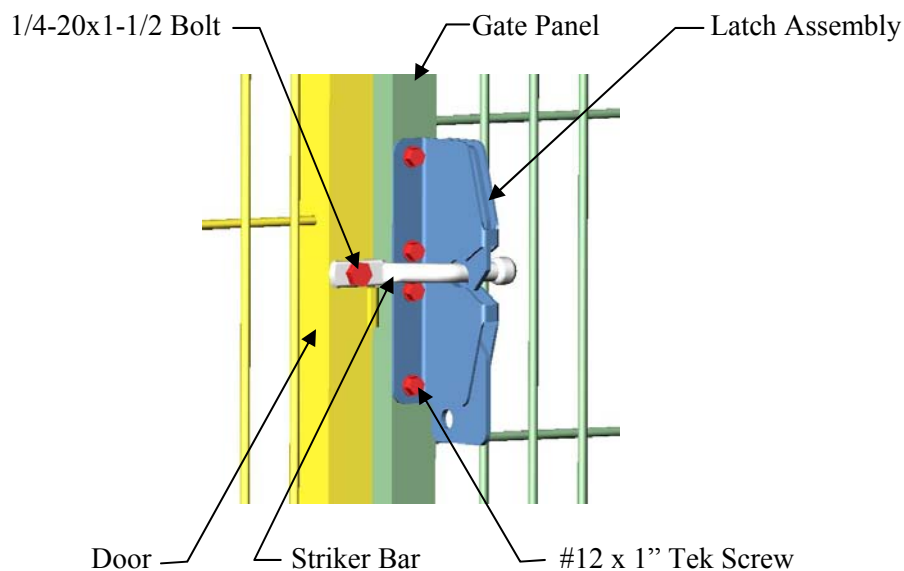


Figure 34

1. Install the Striker Bar to the pre-drilled Door using a 1/4"-20 x 1-1/2 Hex Bolt and 1/4"-20 Nylox Nut (**Figure 34**). Position the Striker bar into a horizontal position.

Note:

To install the Latch Assembly to an **Optional** Stainless Steel Gate Panel, you must pre-drill the holes using a 3/16" cobalt drill bit through only one wall of tube for the 1" Tek Screws by matching with the pre-drilled holes in the Latch Assembly.

2. Hold the Latch Assembly in place against the Gate Panel and close the Door. Make sure to center the Striker Bar within the latch pocket and latch looks straight. Using (4) 1" Tek Screws, attach the Latch Assembly to the Gate Panel (**Figure 34 & 34A**).

Latch Assembly for optional Glass Gate Panel Assembly

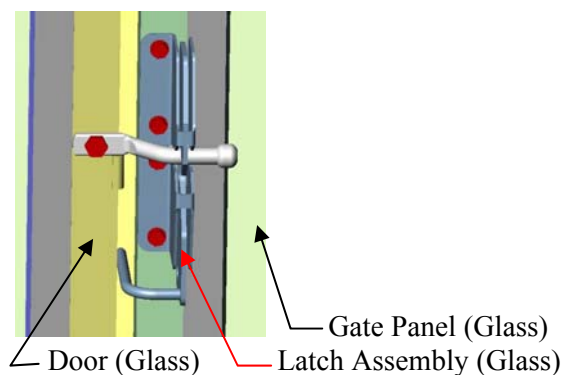


Figure 34A

Use the same installation instructions as shown above for the Glass Gate Panel Assembly.

N. Installation Options:

1. Top Wire Panel

Hardware Required



061.1010.00 - #12X1 TEK SCREW

Locate the Top Wire Panel with slotted tabs. Position the Top Wire Panel with the tabs resting on the top of Side Panels equally spaced within the opening. Attach the Top Wire Panel to the Side Panels using 1" Tek Screws through the slotted tabs as shown in **(Figure 35 & 36)**. The mount tabs are staggered to avoid interference with each other when assembling multiple kennels.

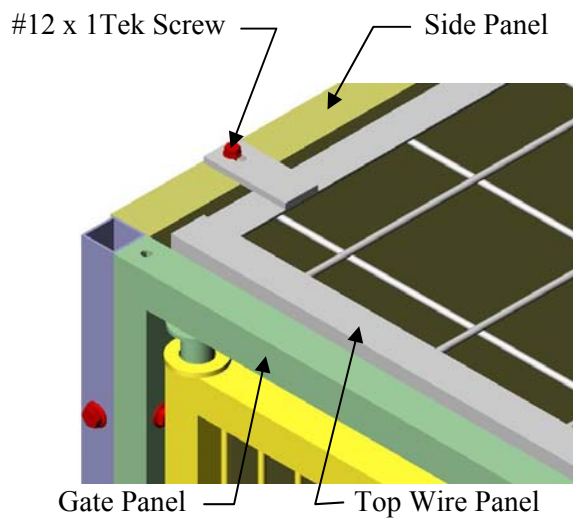


Figure 35

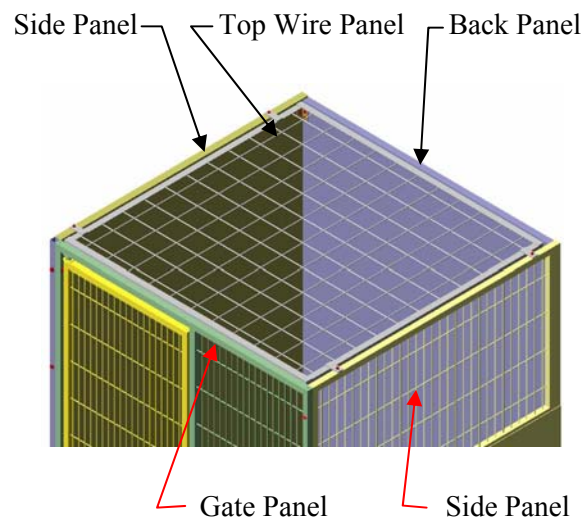







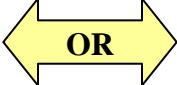



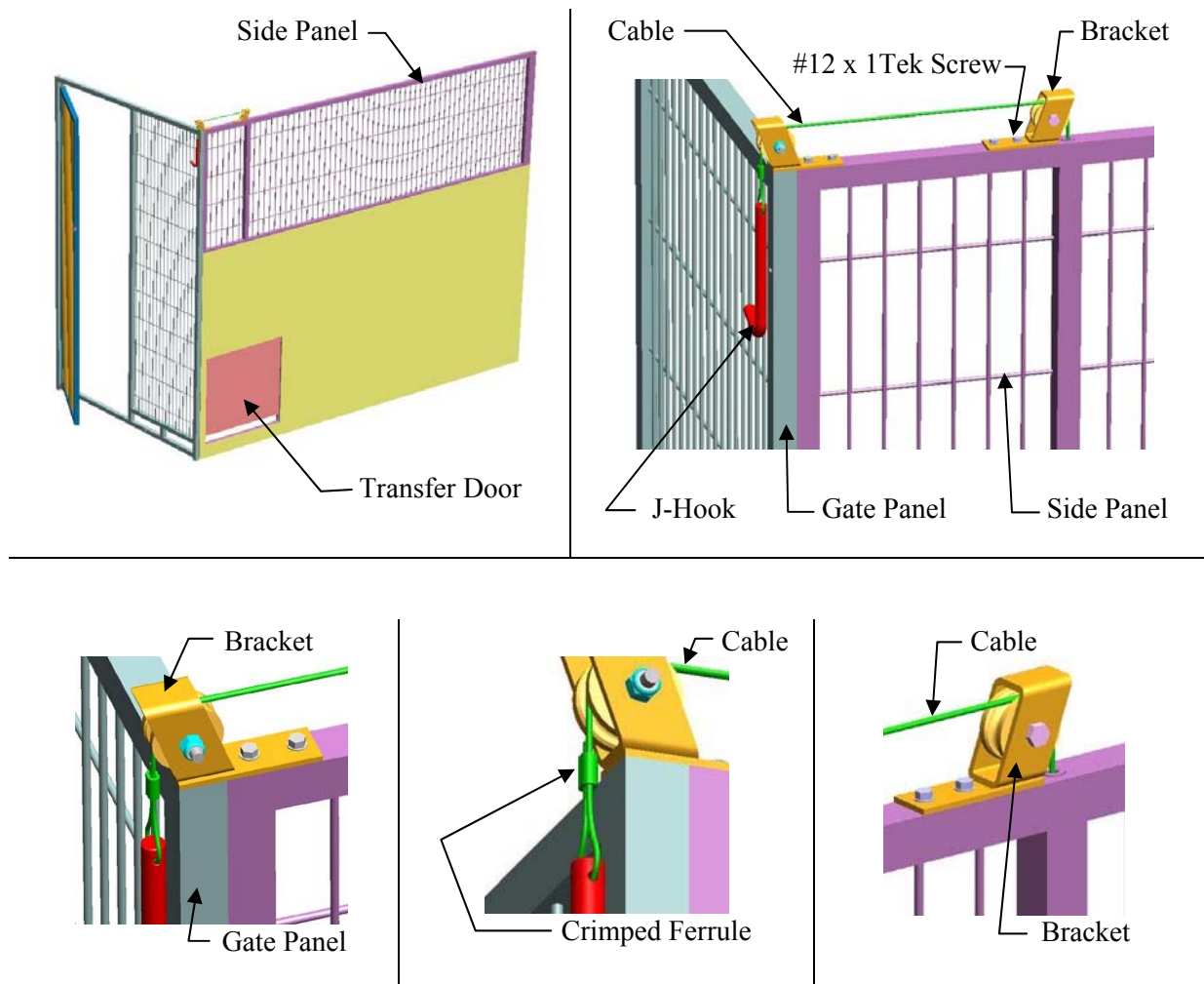
Figure 36

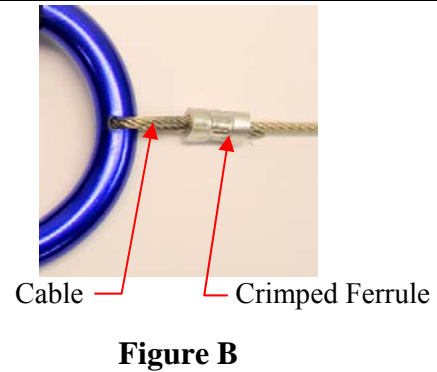
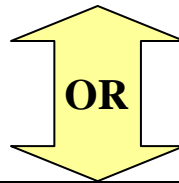
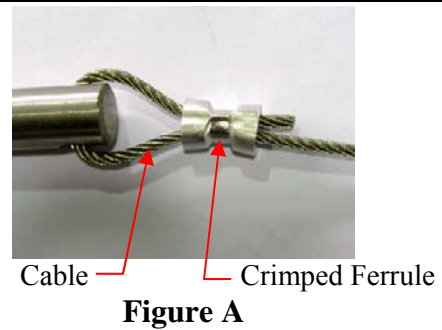
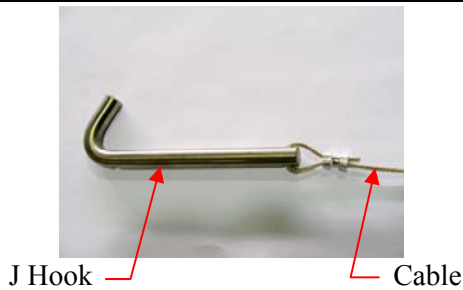
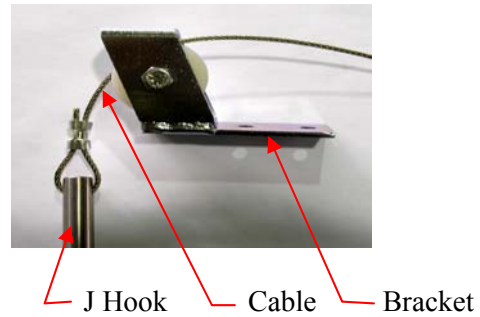
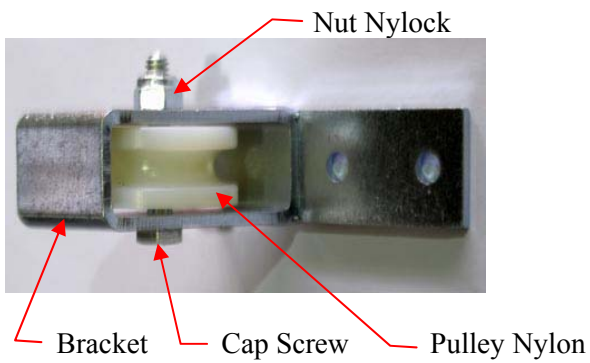
2. Side Transfer Door Assembly

Hardware Required

 <p>061.1010.00 #12X1 TEK SCREW</p>	 <p>731.0000.08 BRACKET, TRANSFER DOOR</p>	 <p>310.0555.02 PULLEY NYLON</p>	 <p>062.2515.00 1/4X1.5 CAP SCREW</p>	 <p>064.2500.22 1/4 NYLOCK NUT</p>
 <p>043.0004.01 SLEEVE (FERRULE)</p>	 <p>041.0091.00 J-HOOK</p>	<p>J-HOOK</p>  <p>CARABINER</p>	 <p>193.0050.01 CARABINER</p>	

Install Pulley Bracket Assemblies using #12 x 1" long Self-Drilling Screws as shown. Locate J-Hook or Carabiner and Ferrule.





J-Hook or Carabiner Installation

To install the J-Hook or Carabiner for the optional transfer door, route the cable as shown in **(Figure A)**. Take an aluminum ferrule and route the cable through the ferrule, then through the hole in the J-Hook/Carabiner, and back through the ferrule.

Before crimping the ferrule to secure the cable, adjust the length of the cable so that the J-Hook or Carabiner can properly hook to the cross members of the wire mesh panel in a position that will hold the transfer door fully open. When you are satisfied with the position of the J-Hook/Carabiner, crimp the ferrule tightly to the cable and trim off any excess cable **(Figure B)**.

3. Feed Tray Cam Lock Installation

Hardware Required



058.3002.01 CAM LOCK



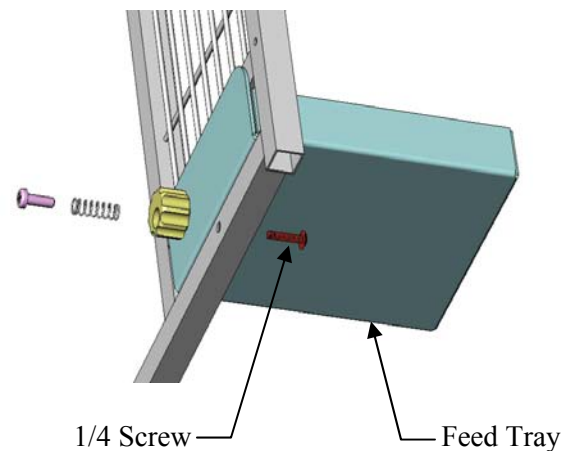
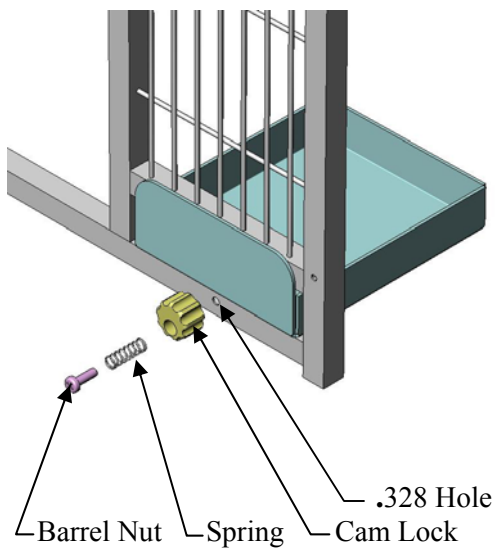
064.2500.17 BARREL NUT



085.1012.00 SPRING



062.2515.04 SCREW 1/4 W/TORQUE PATCH



1. Locate .328 Diameter hole on the right hand side of bottom tube. Align Cam Lock 058.3002.01 with .328 diameter hole in bottom tube by holding larger diameter towards front.
2. Slide Spring 058.1012.00 onto a Barrel Nut 064.2500.17 and insert it into Cam Lock. Screw 062.2515.04 as shown from the backside of bottom tube and tighten securely.
3. Adjust the Cam Lock so that it can freely move clockwise or counterclockwise.
4. Insert the Feed Tray into the Feed Tray slot. Turn the Cam Lock to lock the Feed Tray in place.