



E-Bike Locker

Single (D1)

Meet the soaring demand for high-security e-bike parking and charging with the E-Bike Locker Double. Our rugged, steel lockers protect those valuable bikes from thieves and the elements, while an integrated 4-hour timer limits charging times to help prevent overcharging and promote battery health.

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E-Bike Locker Single (D1)



4 HOUR POWER

Dero e-bike charging products feature timed charging cycles to greatly reduce the risk of overcharging batteries.

FEATURES

- ADA compliant handle
- Integrated 4-hour timer helps prevent overcharging of batteries
- Door latches in multiple places along the frame for greater security

FINISH OPTIONS

Powder Coat

White	Black	Light Gray RAL 7042	Deep Red RAL 3003
Orange RAL 2004	Beige RAL 1001	Iron Gray RAL 7011	Hunter Green RAL 6005
Light Green RAL 6018	Green RAL 6016	Blue RAL 5005	Sky Blue RAL 5015
Sepia Brown RAL 8014	Dark Purple	Wine Red RAL 3005	Bronze

LOCKING OPTIONS

Key

Padlock

OTHER OPTIONS

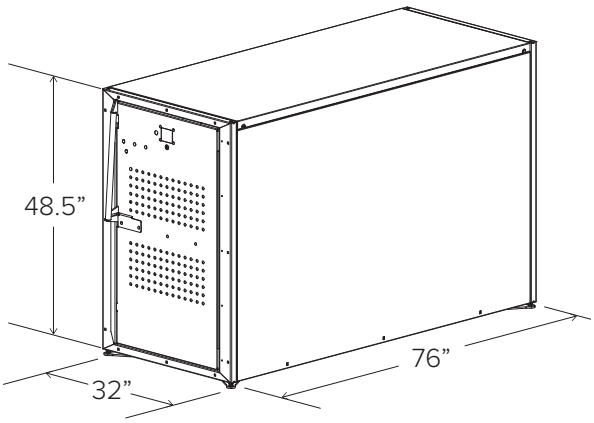


Airport Security Window

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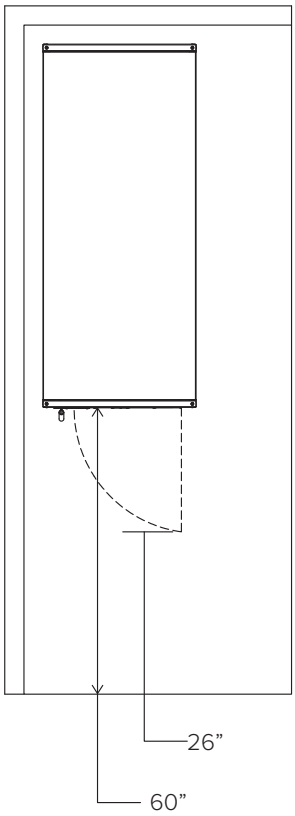
E-Bike Locker Single (D1)

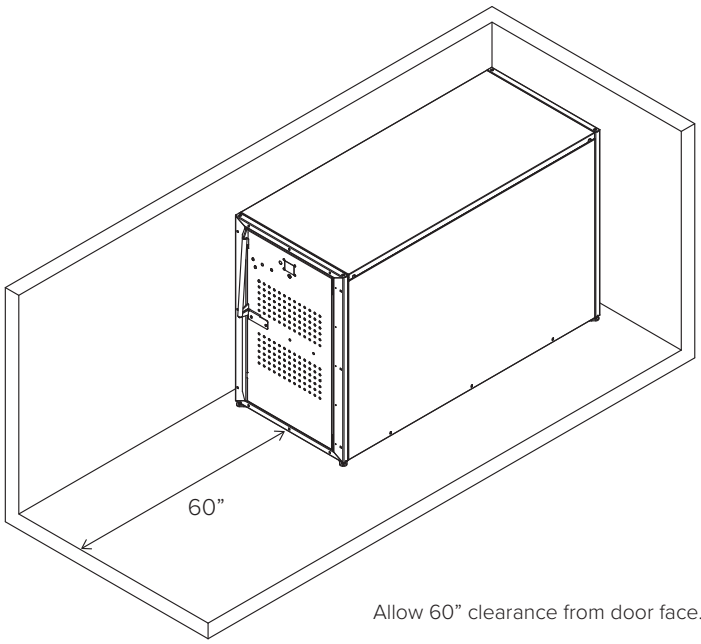
Submittal Sheet



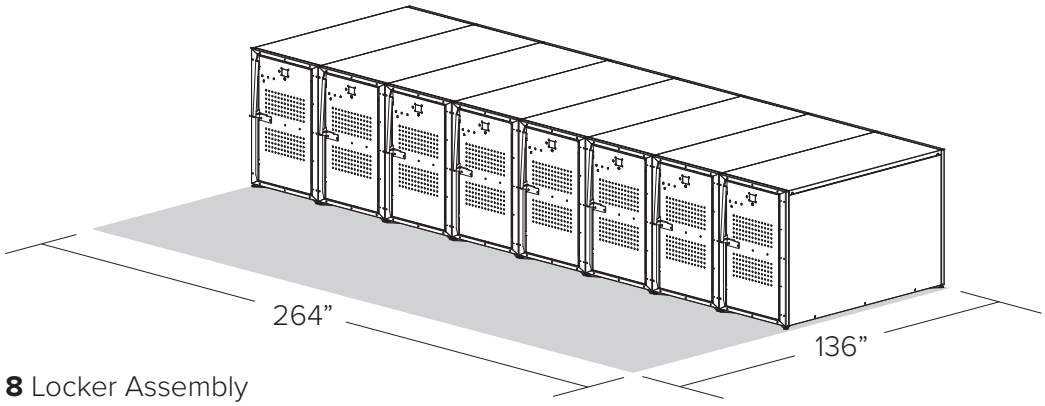
CAPACITY	1 Bike
MATERIALS	**Frame:** 1.50” x 3.00” x 14g tube **Floor:** 18g plate **Sides:** 18g plate **Doors:** 16g plate **Top:** 18g plate The Dero e-charging outlets are IP54 weather resistant, impact resistant, and are UL listed. All Dero e-charging outlets come with an integrated 4-hour timer that helps prevent batteries from overcharging.
FINISHES	**Locker Frame:** Galvanized **Panels and Doors:** Powder coat over G90 electro plated steel
LOAD DATA	40 psf snow, 90 mph wind exposure B, high seismic
SETBACKS	Allow a 60” clearance from door face.
STANDARD	• Outlet with 4-hour timer • Leveling feet • Floor panel • Ventilating window on doors • Graffiti resistant • UV resistant • Gear hook • Door closer
LOCKING OPTION	☐ **Key** ☐ **Padlock**
WINDOW	☐ **Add airport security window to door** 15”W x 28”H x 1/4” UV and grafitti resistant clear polycarbonate

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Allow 60” clearance from door face.



8 Locker Assembly

(Example configuration. Any number of lockers may be installed in a set. Charging lockers should have no more than 4 units per 20 amp circuit.)

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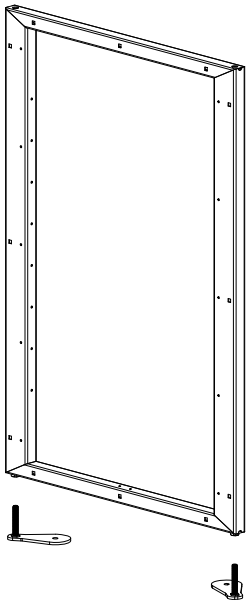
TOOLS NEEDED

Hammer drill with 3/8” masonry bit
Hammer
Bubble level
Tape measure
3/8”, 7/16”, ½”, 9/16” wrenches
Socket wrench
3/8”, 7/16”, ½”, 9/16” sockets
Power drill
#3 Phillips screwdriver bit
Needle-nose pliers
Socket Extension
Small side-cutter pliers

RECOMMENDED BASE MATERIAL

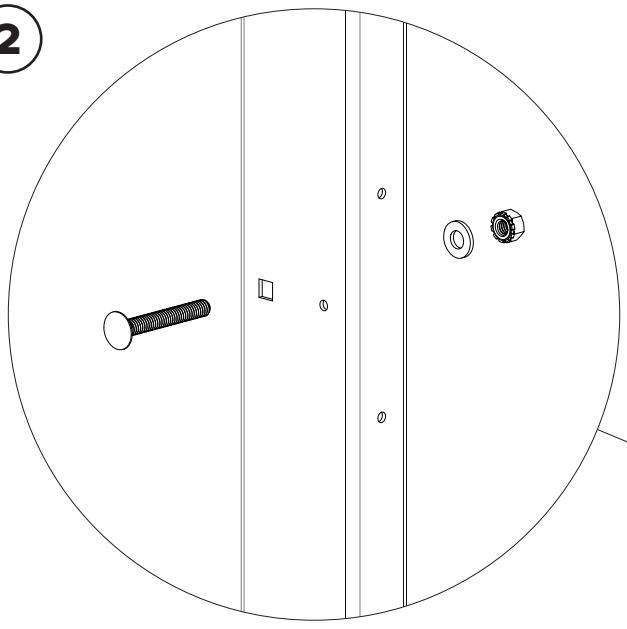
Solid concrete is the best base material for installation. To ensure the proper anchors are shipped with your locker, ask your Dero representative which anchor is appropriate for your application. Be sure nothing is underneath the base material that could be damaged by drilling.

1

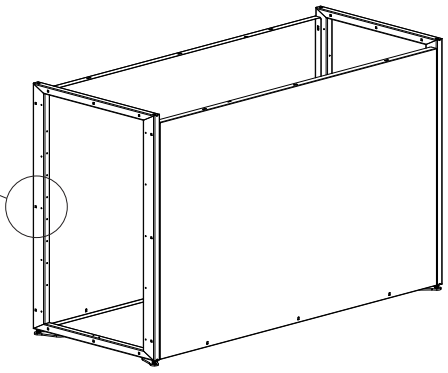


Thread (2) leveling feet into each door frame.

2

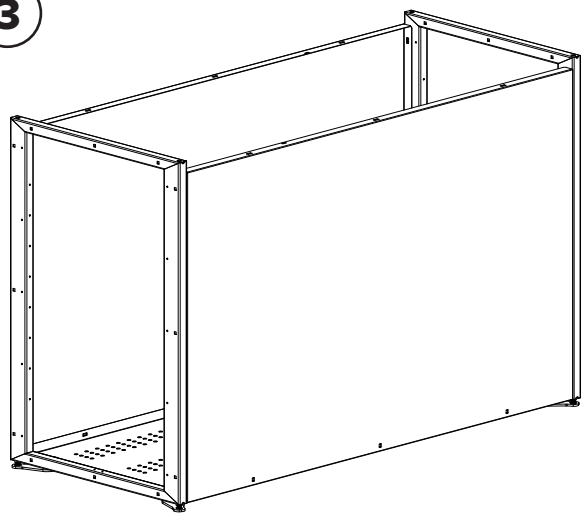


Attach (2) side panels to the (2) door frames with (12) 5/16” x 2.25” carriage bolts, washers, and nuts. Omit the (4) bottom bolts for now. Leave nuts finger-tight



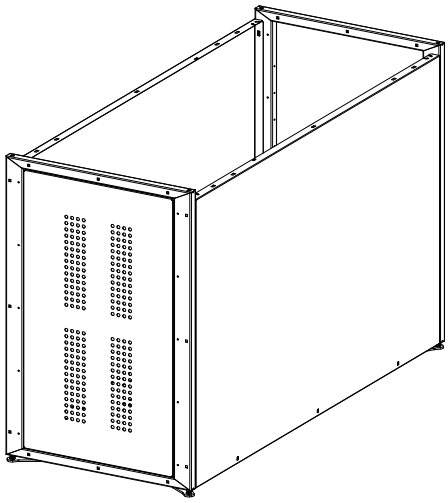
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3



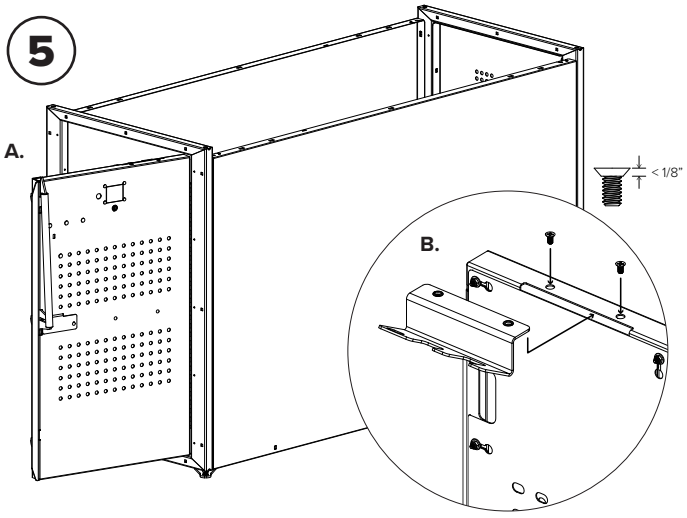
Place the floor panel in the locker and attach to the side panels with (6) 5/16” x .75” carriage bolts, washers, and nuts. Attach to the door frames with (6) 5/16” x 2.25” carriage bolts, washers, and nuts. Add the remaining (4) 5/16” x 2.25” carriage bolts, washers, and nuts that attach the side panels to the door frames. Leave all nuts finger-tight.

4



Attach the back panel to the rear door frame with (10) #12 x ¾” self-drilling screws. Pilot holes are present but may be partially filled with zinc. Screwing is done from inside the locker. Set the power drill clutch to a high setting but not locked. The final tightening should be done by hand with a #3 Phillips driver. **Do not use an impact drill** or the threads will be stripped.

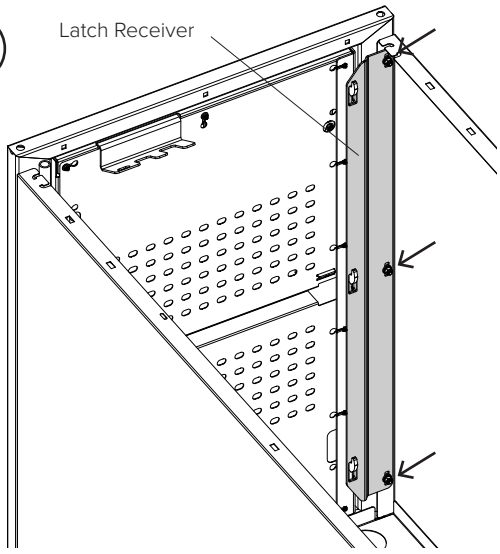
5



A. Attach the door assembly with (8) #12 x ¾” self-drilling screws. Pilot holes are present but may be partially filled with zinc. Set the power drill clutch to a high setting but not locked. The final tightening should be done by hand with a #3 Phillips driver. **Do not use an impact drill** or the threads will be stripped.

B. Attach the door spring/gear hook to the door with (2) ¼” x ½” undercut screws.

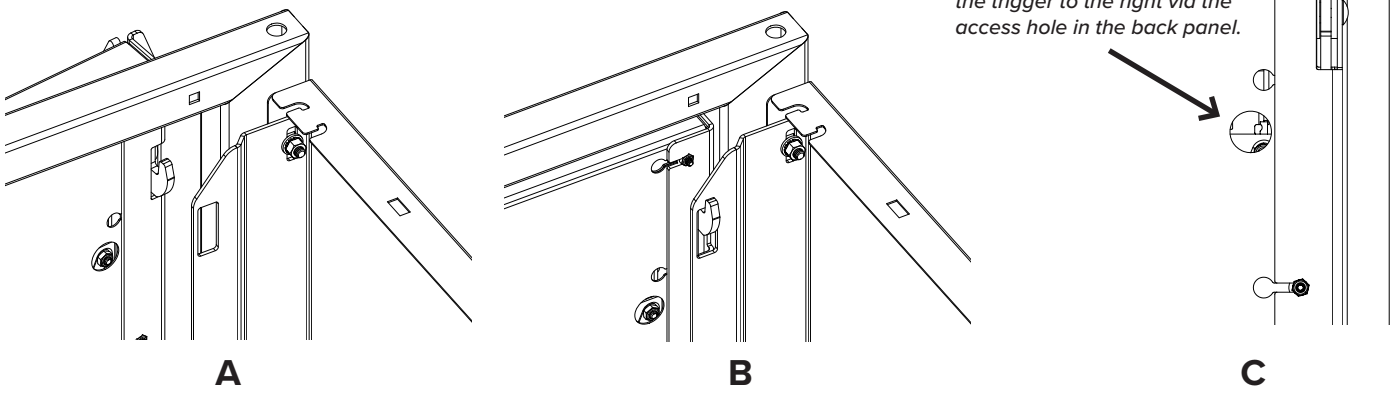
6



Attach the latch receiver by removing the (3) nuts and washers on the inside-left of the door frame (these are the nuts and washers that hold the side panel on). Place the latch receiver on the (3) bolts and fasten with the (3) nuts and washers finger-tight.

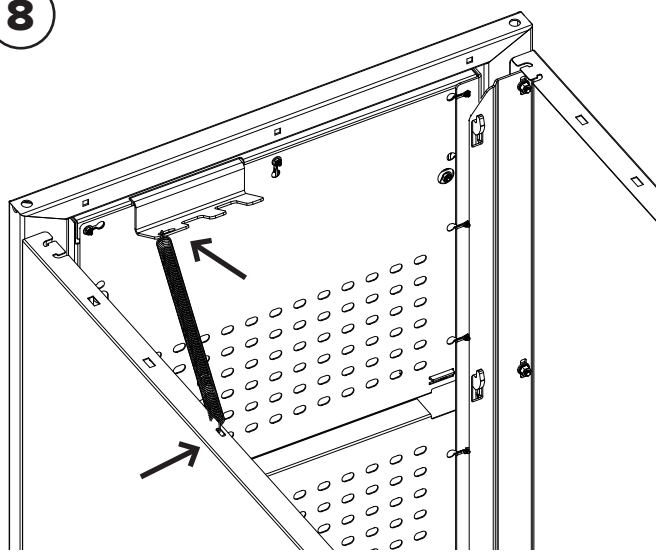
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7



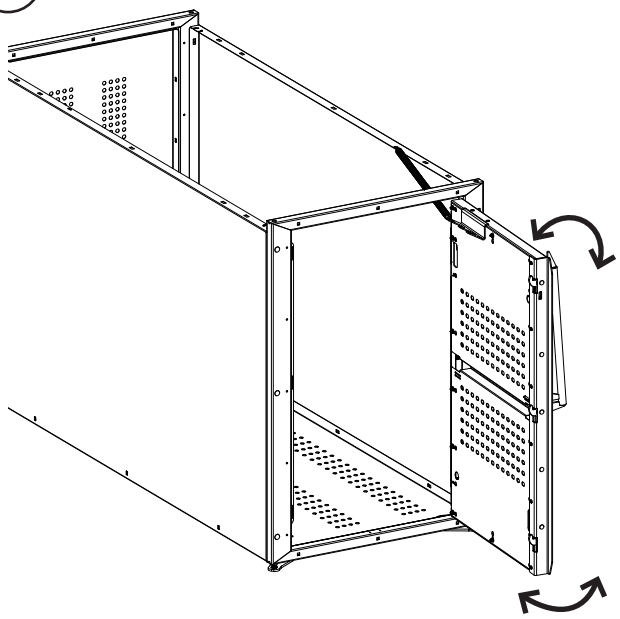
Unlock the door so the latch is lowered and shut the door. Confirm the latch hooks can pass through the slots in the latch receiver. Lift the door handle and confirm the latch locks without interference from the receiver. Tighten the (3) nuts attaching the latch receiver. Confirm the unlock and lock procedure one final time.

8



Attach the door closing spring to the door spring/gear hook bracket and side panel. A needle-nose pliers is helpful.

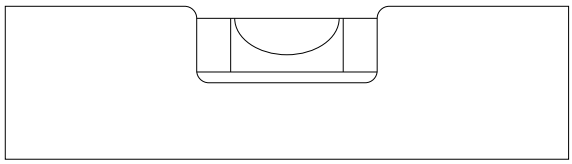
9



If any twist needs to be taken out of the door, loosen the #10 locknuts, set the door, and re-tighten.

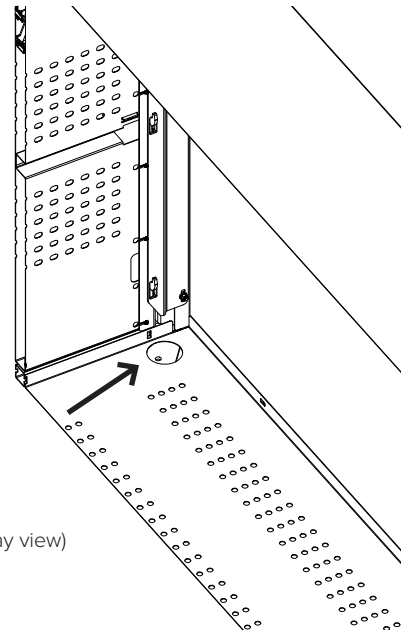
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10



Level the locker with the leveling feet, check squareness, and tighten all the 5/16” nuts attaching the side panels, door frames, and floor.

11

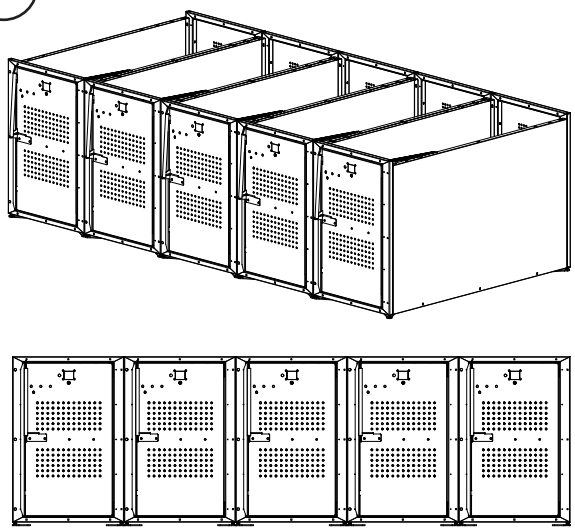


(Cutaway view)

Secure the locker to the ground with (4) anchors. The leveling feet anchor holes should line up with the large holes in the locker floor.

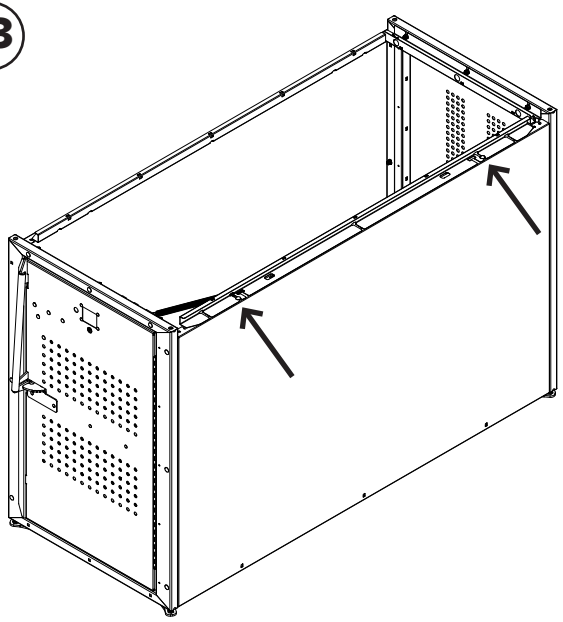
Use wedge anchors for installation on concrete, or Titen anchors for asphalt surfaces. Contact Dero if you do not have the appropriate anchors for your installation surface.

12



If a row of lockers is to be installed, build the others in the same way and position them directly next to each other with all lockers in a row at the same height. None of the lockers have roofs at this point.

13

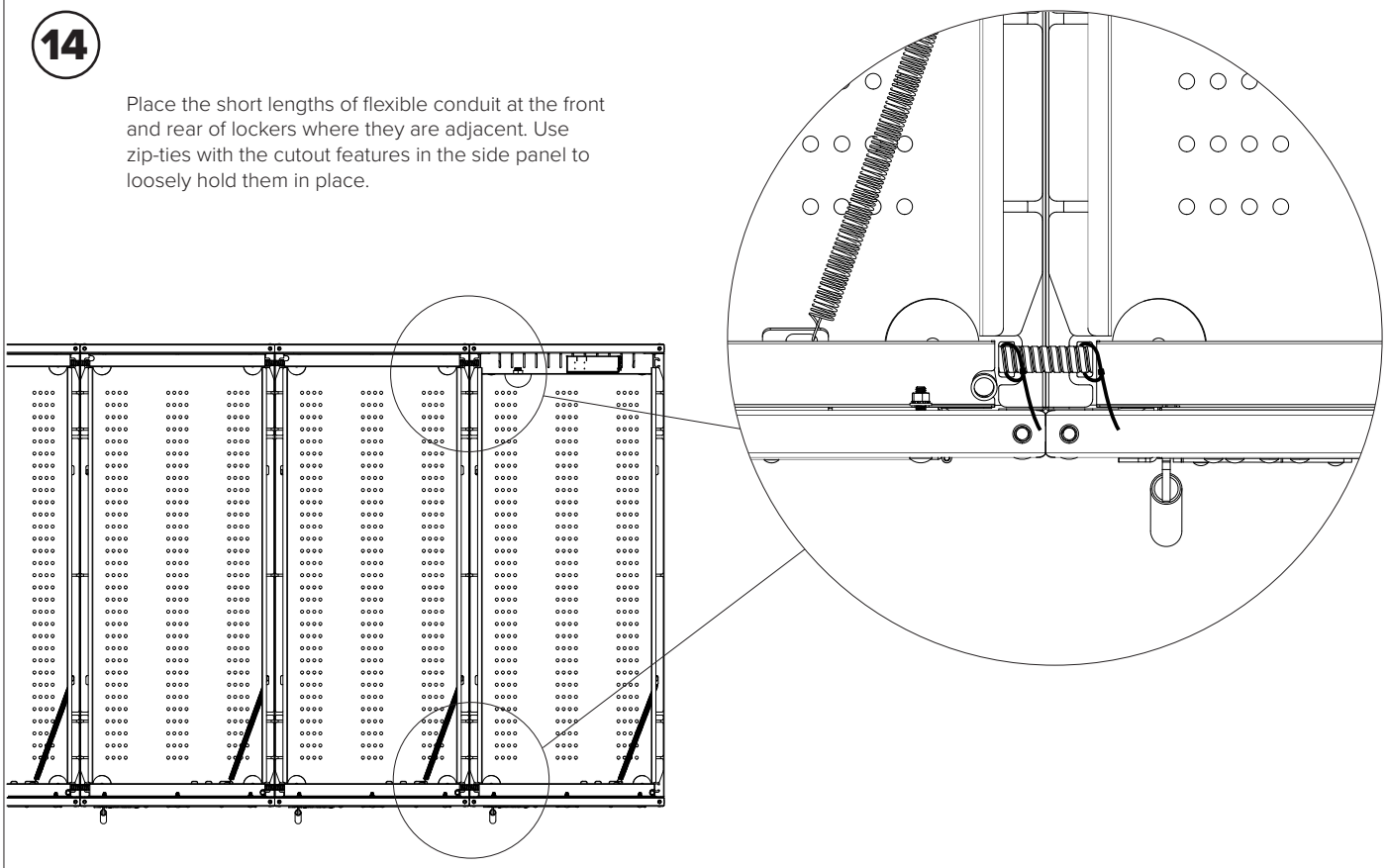


If the lockers include e-bike charging, attach the rear cable guard and secure with (3) 5/16” x 2.25” carriage bolts, washers, and lock nuts. Attach (2) side cable guards and secure each with (2) 5/16” x 3/4” carriage bolts, washers, and lock nuts. Note the specific holes.

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14

Place the short lengths of flexible conduit at the front and rear of lockers where they are adjacent. Use zip-ties with the cutout features in the side panel to loosely hold them in place.



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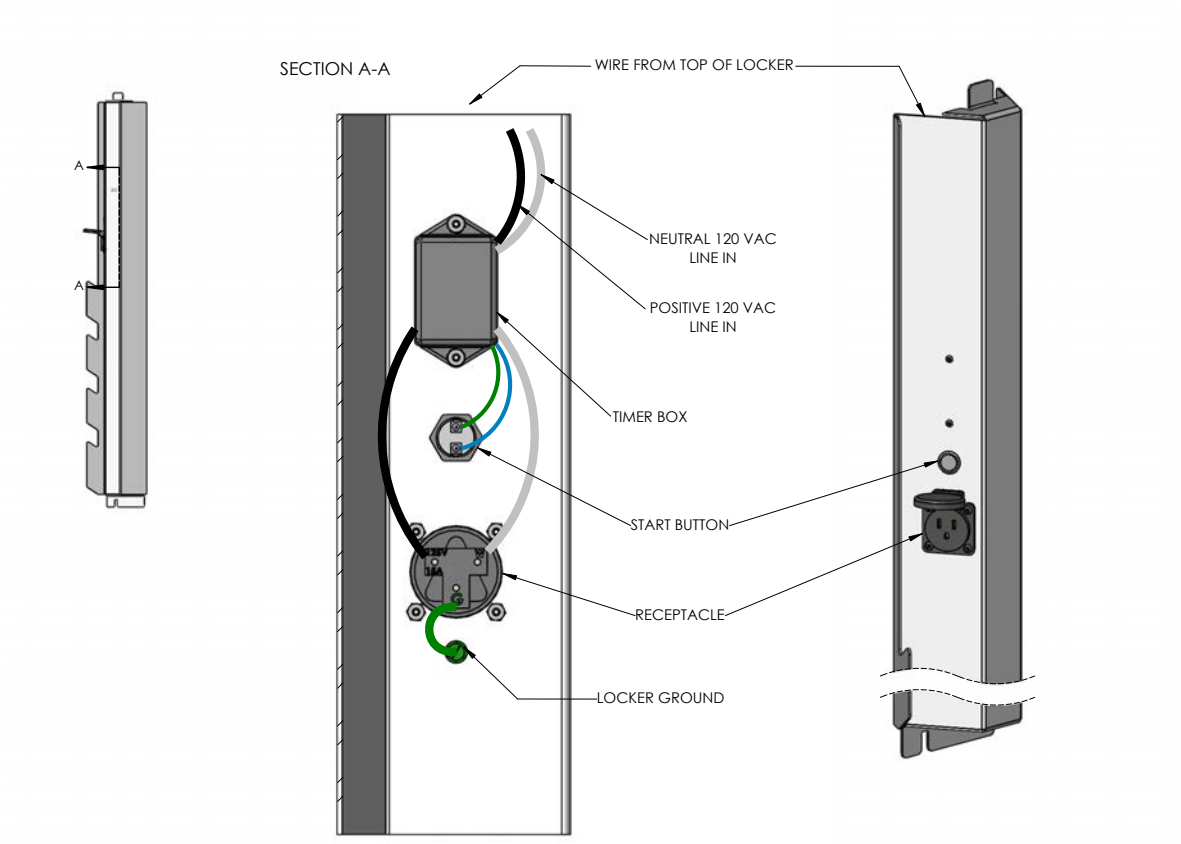
15

A licensed electrician will install the receptacle and timer.

ALL ELECTRICAL WIRING TO BE PERFORMED BY A LICENSED ELECTRICIAN IN ACCORDANCE WITH NEC OR THE LOCAL CODE

ALL WIRES AND CONDUIT SUPPLIED BY INSTALLER

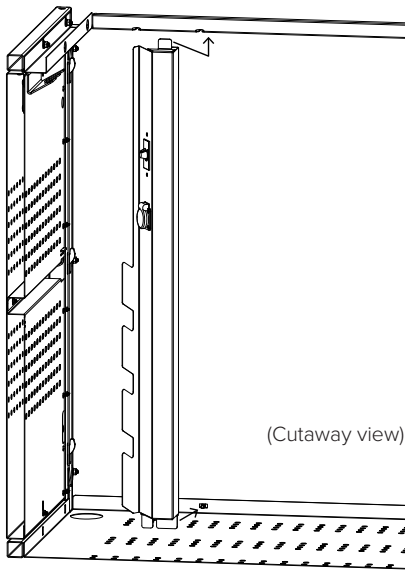
1. ROUTE POSITIVE AND NEUTRAL ELECTRICAL WIRES THROUGH THE BIKE RACK CONDUIT FITTING OR BASE PLATE.
2. CONNECT ELECTRICAL WIRES TO TIMER BOX.
3. FASTEN THE RECEPTACLE ASSEMBLY TO THE BIKE RACK WITH (4) 1/4-20 TAMPER-RESISTANT SCREWS (TOOL PROVIDED).
4. ATTACH GROUND WIRE TO BIKE RACK GROUND WITH A #10-24 SCREW.
5. CONNECT POSITIVE AND NEUTRAL WIRES TO GCFI CIRCUIT BREAKER 125 VAC MAX.
6. TEST:
   - ATTACH LOAD TO RECEPTACLE AND PRESS BUTTON ABOVE IT. THE RECEPTACLE SHOULD BE POWERED FOR 4 HOURS AND THEN SHUT OFF. PRESSING THE BUTTON WHILE THE RECEPTACLE HAS POWER WILL RESTART THE 4-HOUR TIMER. THERE IS NO "OFF" SWITCH OTHER THAN THE TIMER.
   - REPEAT FOR OTHER RECEPTACLES.



Each locker has (1) outlets and requires a 120VAC 4A power supply. Multiple units may be connected to one GFCI breaker circuit that can accommodate 4A per unit.

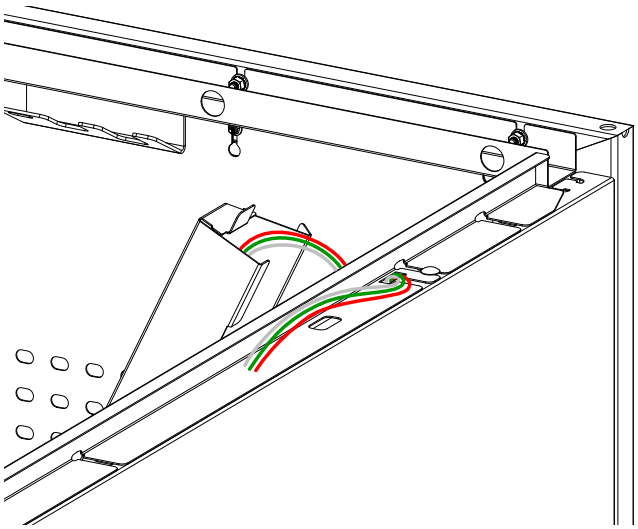
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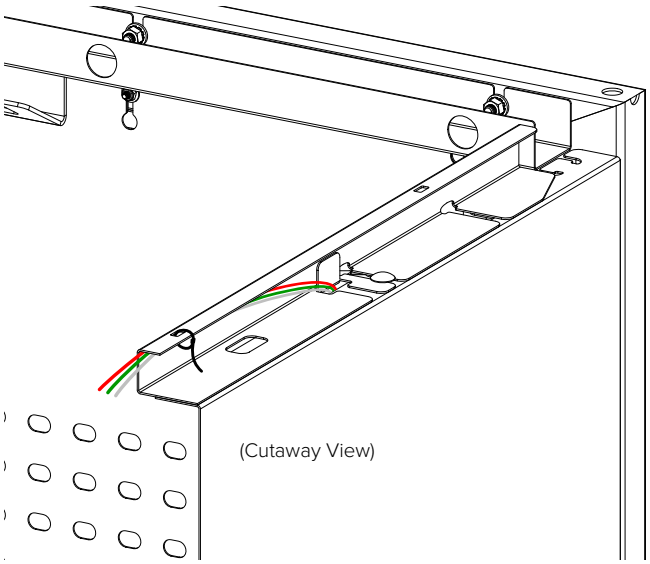
16



(Cutaway view)

Remove the 5/16” nut and washer at the bottom of the left side panel, nearest the door. Feed the power wires through the slot in the cable guard and fit the tab on the charging fixture into the same slot. Lower the bottom of the charging fixture so the bottom slot meets the 5/16” carriage bolt at the panel bottom. Note the power wires aren’t pinch and tighten the 5/16” nut and washer. Zip-ties should be used along the cable guard with the provided slots to hold the wires out of the way. Trim zip-tie tails.

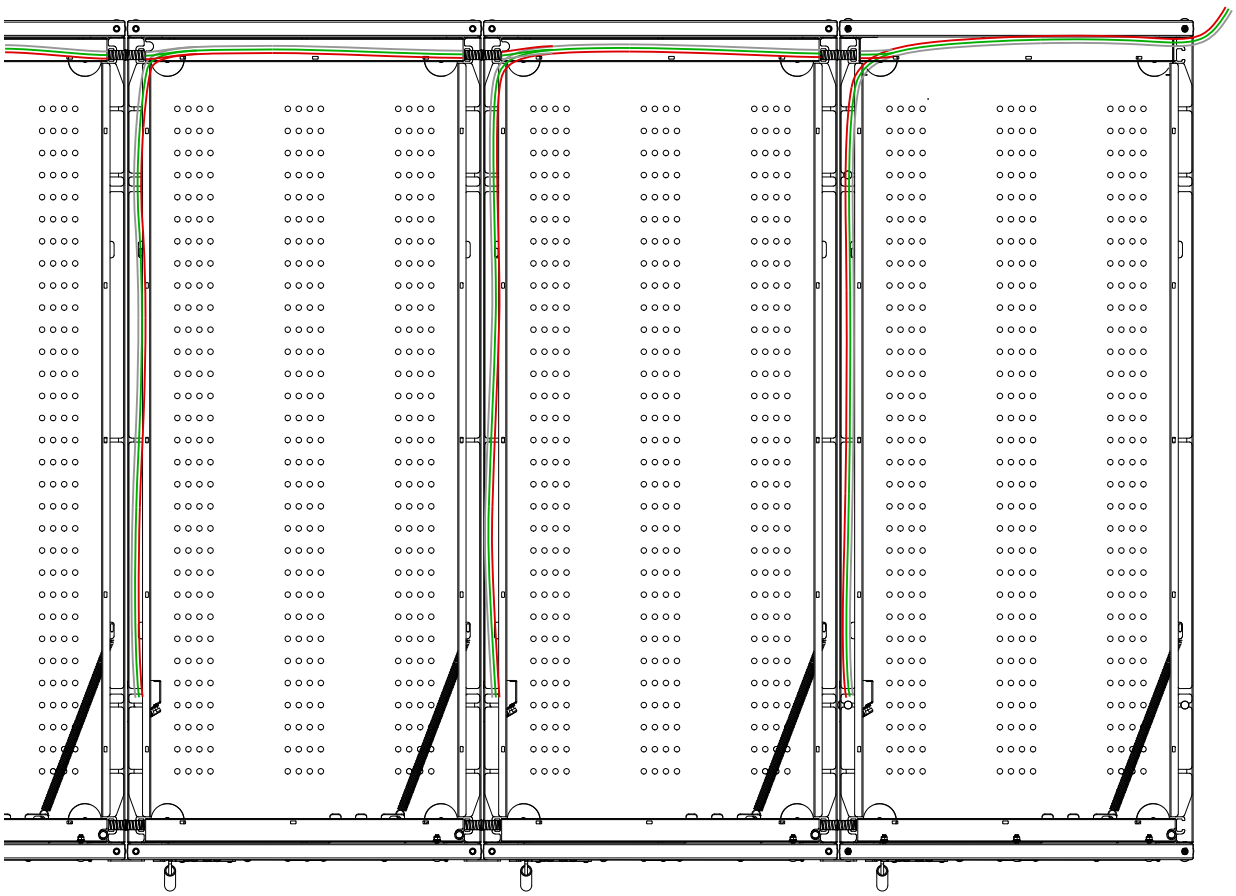




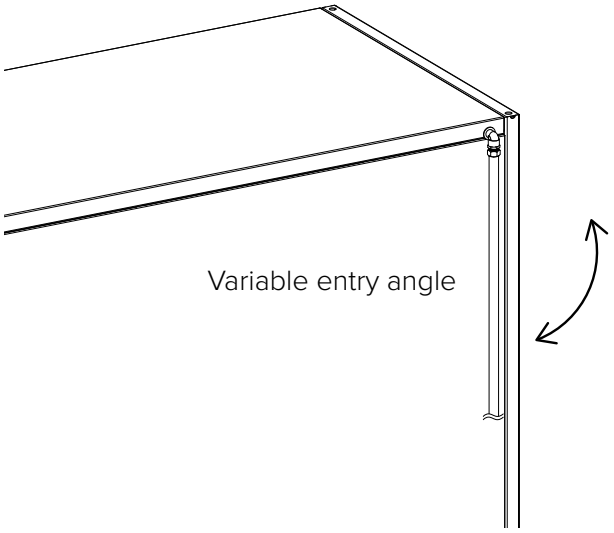
(Cutaway View)

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17

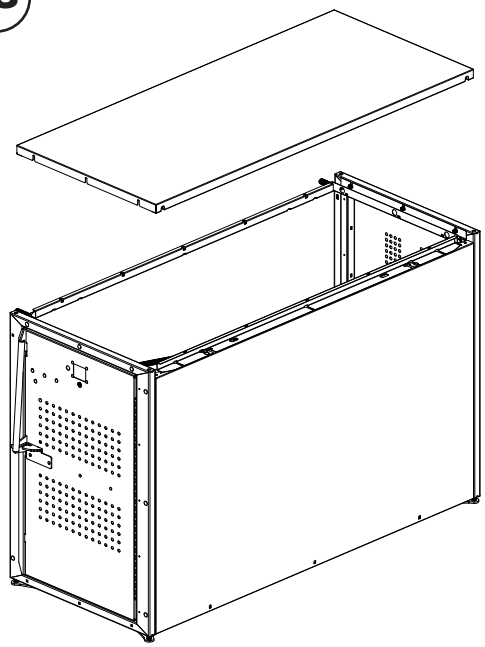


Repeat for remaining e-bike charging outlets and run power wires to the rear of the lockers, through the short flexible conduit, and to the power entry point.

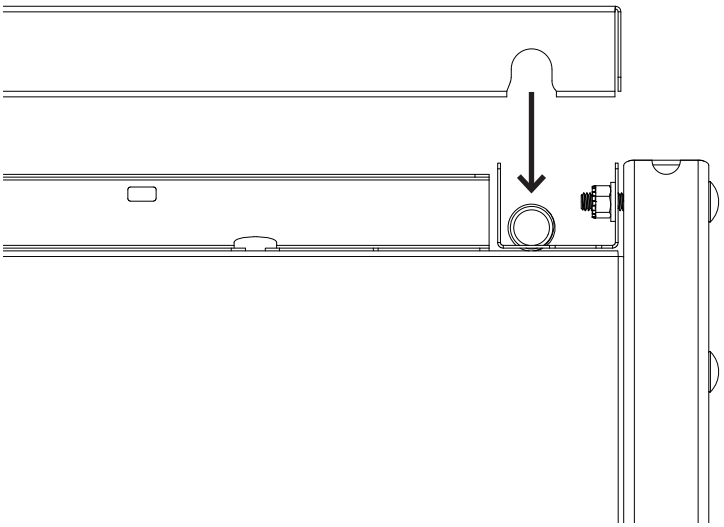


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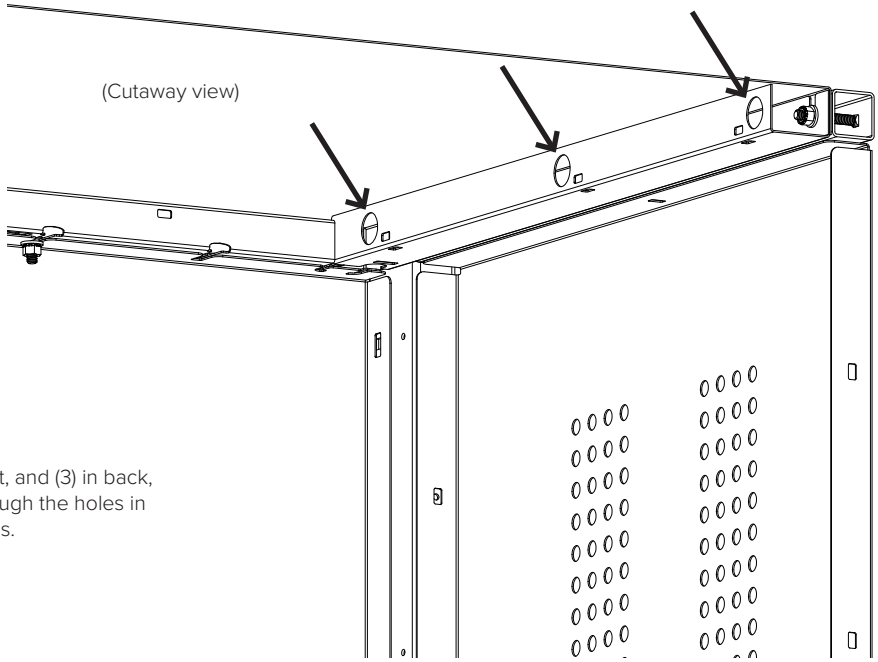


Loosen the (3) 5/16” nuts holding the rear cable guard on and lower the roof panel into place. The rear flange of the roof panel will fit between the frame and rear cable guard. Flexible conduit between the lockers will fit into the cutouts in the roof panel and hold the flexible conduit captive.



19

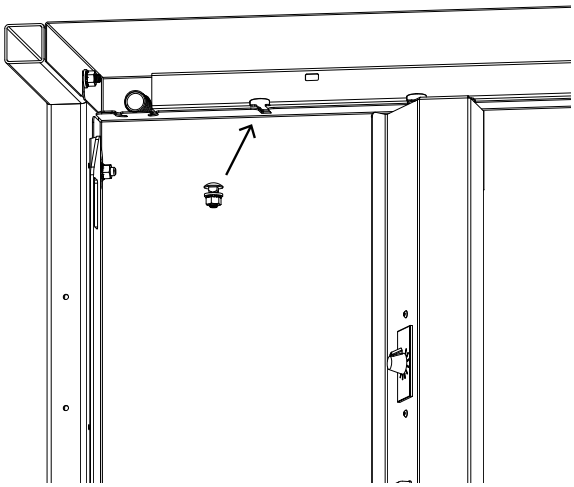
(Cutaway view)

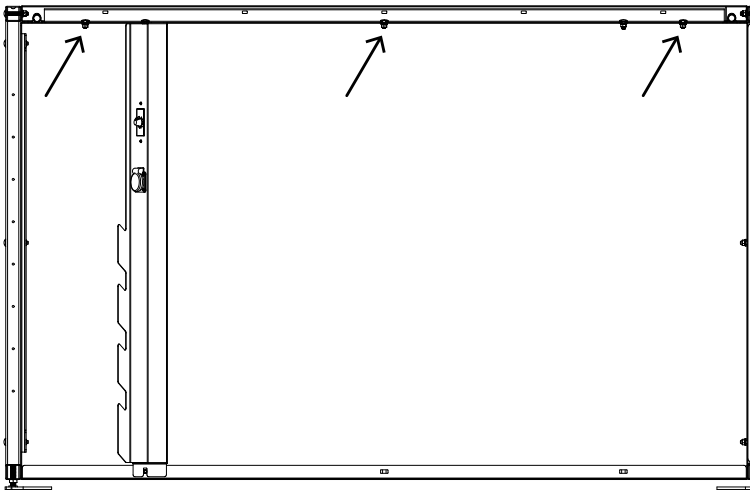


From inside the locker, the (3) 5/16” nuts in front, and (3) in back, can tightened with a 1/2” extension socket through the holes in the cable guard. Note to be careful of the wires.

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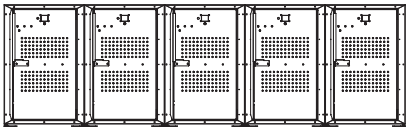
20 From inside the locker, place (3) 5/16” x ¾” carriage bolts, washers, and nuts in the slots on each side of the roof panel. Tighten all nuts. Note to be careful of the cables.

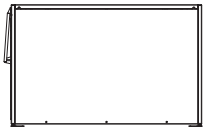


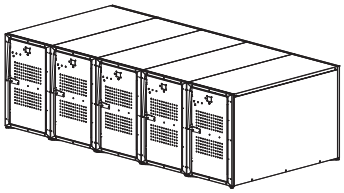


21 Confirm all locker assembly hardware is tight and that door locks operate properly.

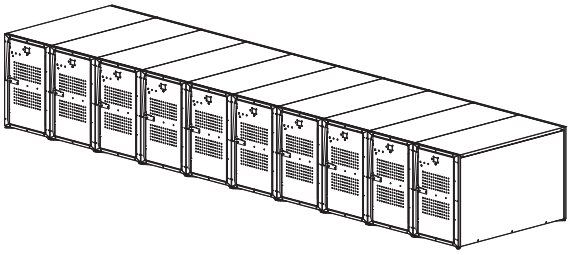
5-LOCKER ASSEMBLY

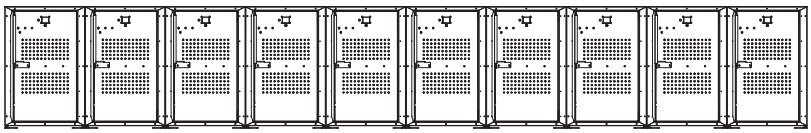


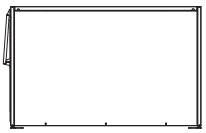




10-LOCKER ASSEMBLY







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