

# AG-SERIES TANDEM TURNSTILE

## INSTALLATION MANUAL



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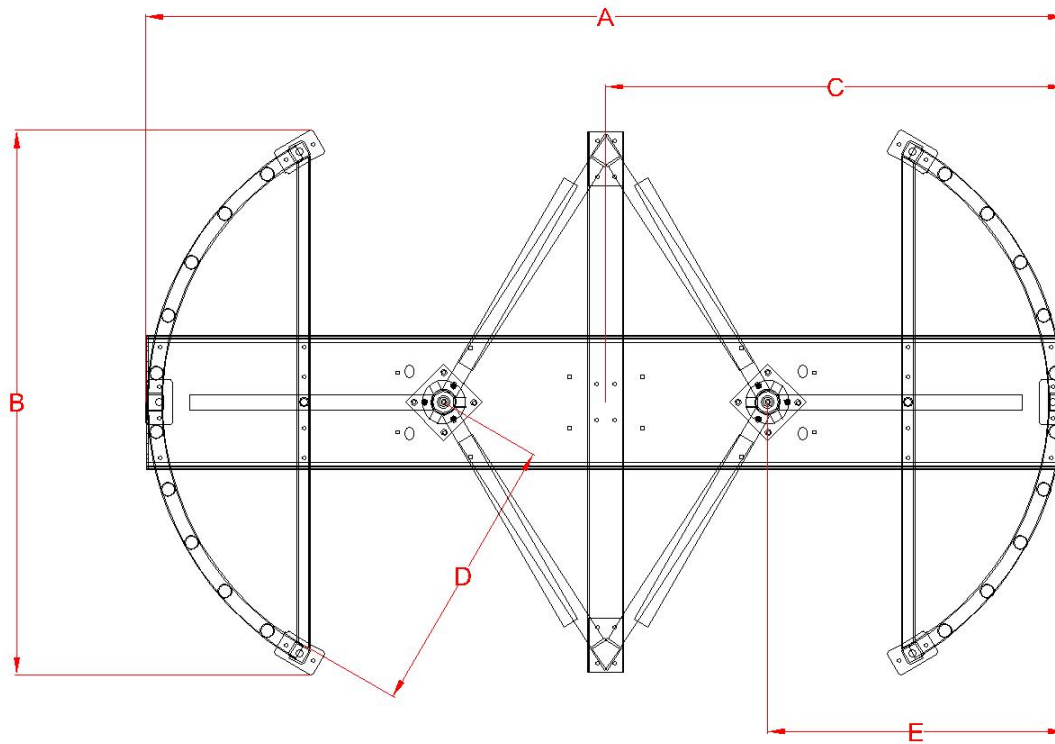
## UNPACKAGING

VERIFY YOU HAVE ALL PARTS AND HARDWARE LISTED BELOW

1. 1 -TURNSTILE HEADER WITH 2 -LOCKING MECHANISMS AND LID
2. 2 - ROTORS
3. 2 -BOTTOM BEARING ASSEMBLIES
4. 2 -CAGES
5. 2 -COMBS
6. 1 -CROSSMEMBER
7. INCLUDED INSTALLATION HARDWARE BOX (SEE HARDWARE CHECKLIST IN BOX)
8. TOUCH UP PAINT (POWDER COATED ONLY)

## TANDEM FULL HEIGHT TURNSTILE GENERAL DIMENSIONS

MODEL	(A)	(B)	(C)	(D)	(E)
AG-27-TT	91 1/4"	55 7/16"	46 5/8"	28 1/8"	30 1/8"
AG-30-TT	102 1/4"	60 9/16"	51 1/8"	31 1/8"	33 1/8"

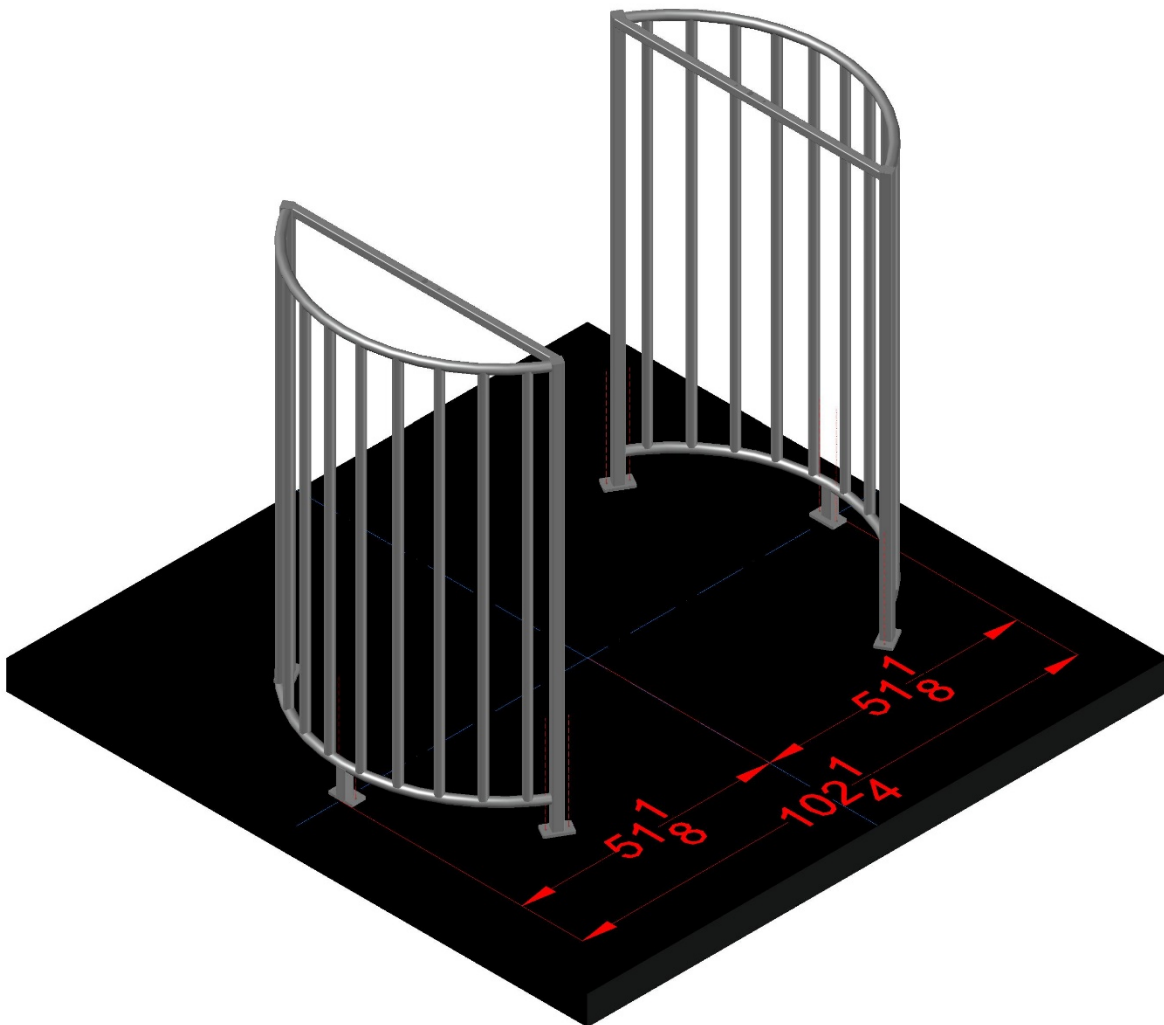


## TANDEM FULL HEIGHT TURNSTILE NOMENCLATURE

<b>AG</b>	<b>30</b>	<b>TT</b>	<b>GV</b>	<b>2E</b>
<b>SERIES</b>	<b>PASSAGE WIDTH IN INCHES 27 30</b>	<b>TT-</b> FOR TANDEM TURNSTILE <b>HHTT-</b> HALF HEIGHT TANDEM TURNSTILE <b>TQHTT-</b> THREE QUARTER HEIGHT TANDEM TURNSTILE	<b>GV-</b> GALVANIZED <b>PC-</b> POWDER COATED <b>POG-</b> POWDER COATED OVER GALVANIZED <b>SS-</b> STAINLESS STEEL	<b>2E-</b> 2 WAY ELECTRONIC PASSAGE CONTROL <b>1E-</b> 1 WAY ELECTRONIC PASSAGE CONTROL <b>M-</b> MECHANICALLY LOCKED ONE DIRECTION, FREE EXIT THE OTHER DIRECTION

## INSTALLATION

1. STARTING WITH A LEVEL CONCRETE SLAB OR EQUIVALENT, BEGIN THE LAYOUT PROCESS BY SNAPPING A CENTER LINE AND A CROSS LINE FOR THE TURNSTILE ENTRANCE. STAND UP THE CAGES ON THE CENTER LINE AND MEASURE THE APPROPRIATE DISTANCE FOR THE MODEL OF TURNSTILE. (SEE GENERAL DIMENSIONS CHART FOR MEASUREMENTS)

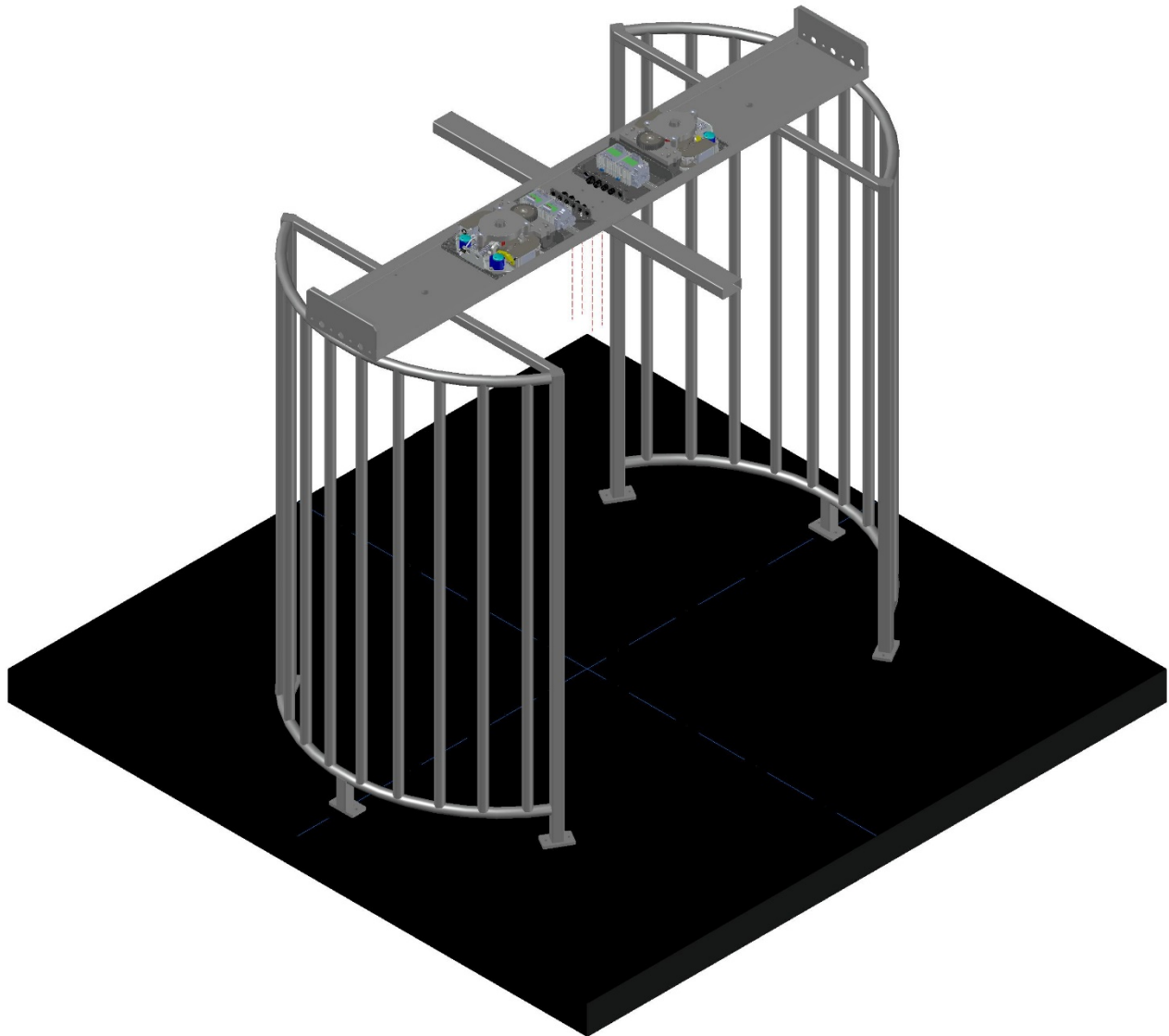


2. LOOSELY BOLT THE HEADER TO CAGES AND SQUARE THEM UP BY MEASURING TO THE CENTER POINT. REFER TO THE GENERAL DIMENSIONS TO SEE WHAT THIS MEASUREMENT WOULD BE FOR EACH MODEL OF TURNSTILE. ONCE SQUARE, MARK THE HOLES ON THE CAGE FEET AND ANCHOR USING PROVIDED ANCHORS.

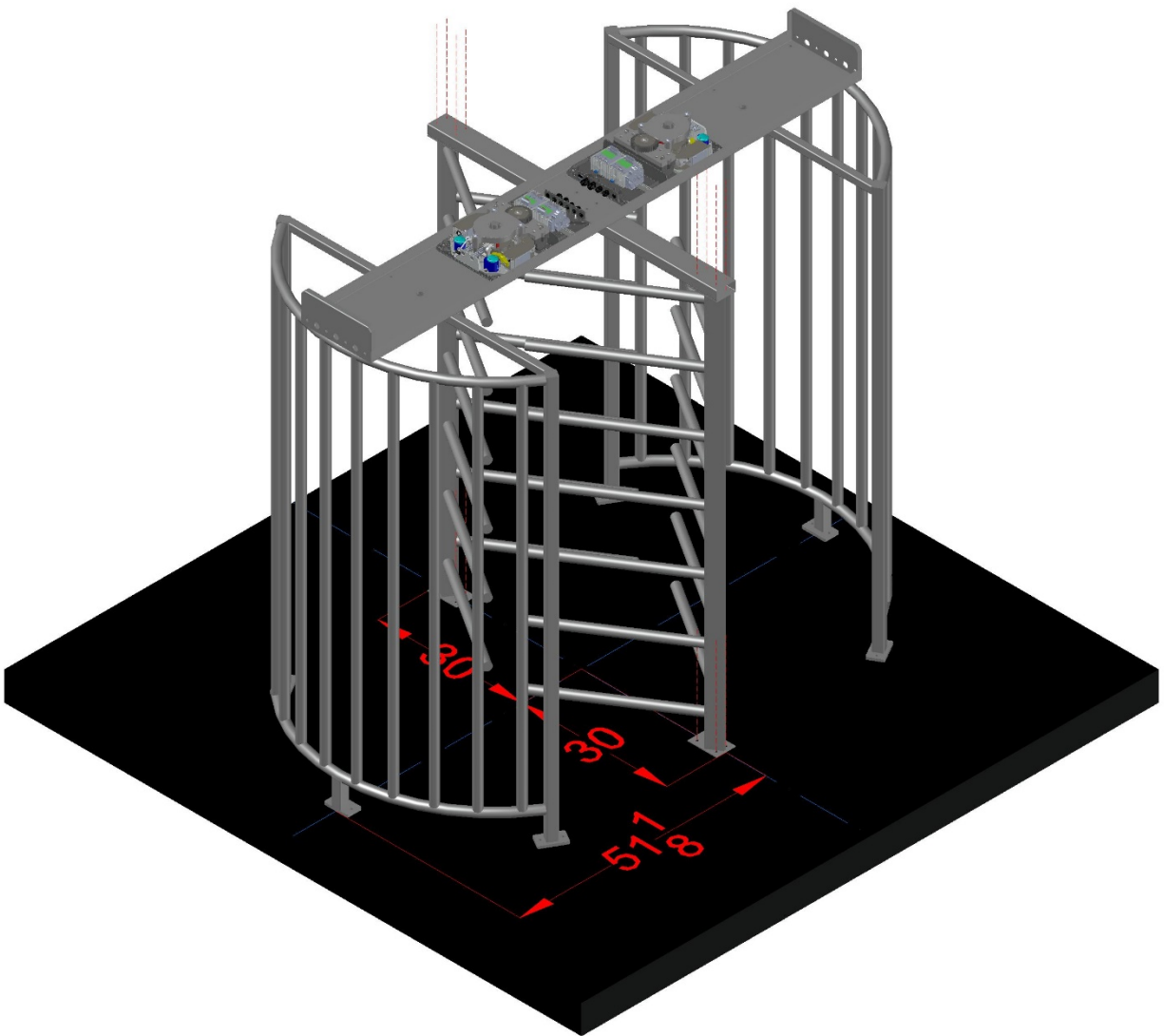




3. ATTACH THE COMB CROSSMEMBER WITH PROVIDED BOLTS.

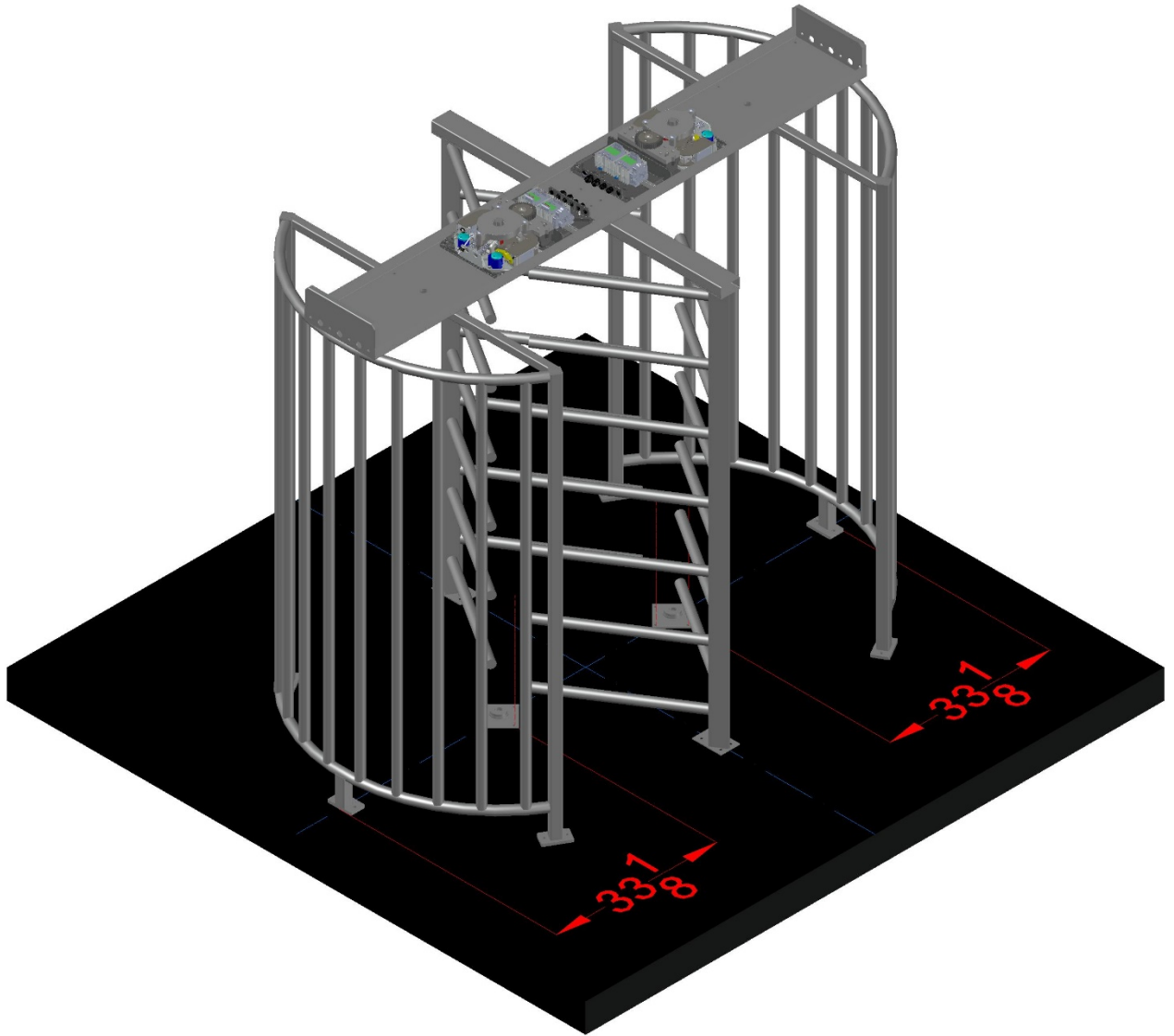


4. THE COMBS WILL BE LABELED TOP AND BOTTOM ON THE ANCHOR AND BOLT PLATES. ATTACH THE COMBS TO THE CROSSMEMBER WITH PROVIDED BOLTS LOOSELY. ALIGN AND ANCHOR THE BOTTOM OF THE COMBS REFERRING TO THE GENERAL DIMENSIONS FOR THE MODEL OF TANDEM TURNSTILE.

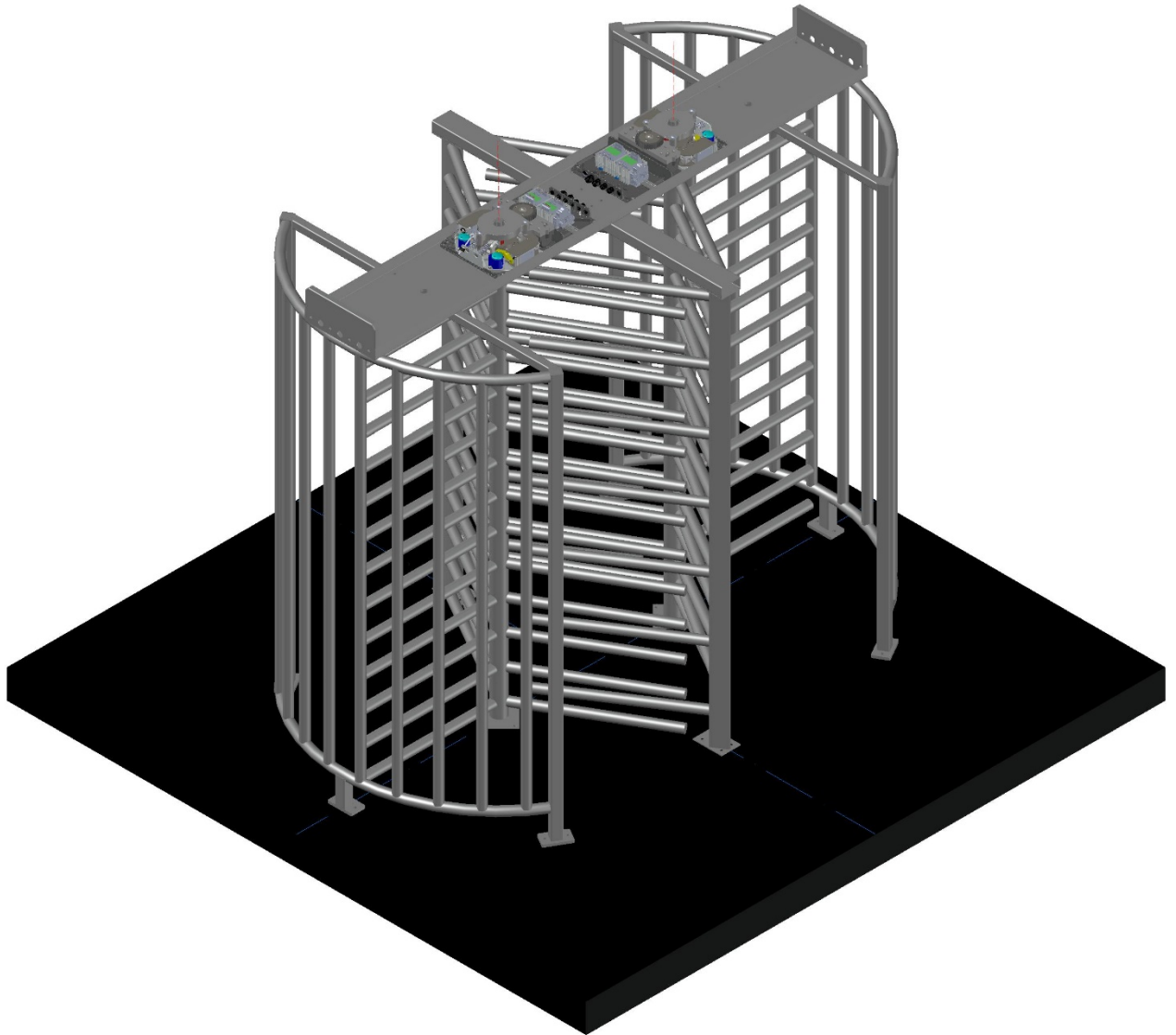




5. INSTALL THE BOTTOM BEARING PLATES WITH THE SUPPLIED ANCHORS REFERRING TO THE GENERAL DIMENSIONS FOR THE MODEL OF TANDEM TURNSTILE.

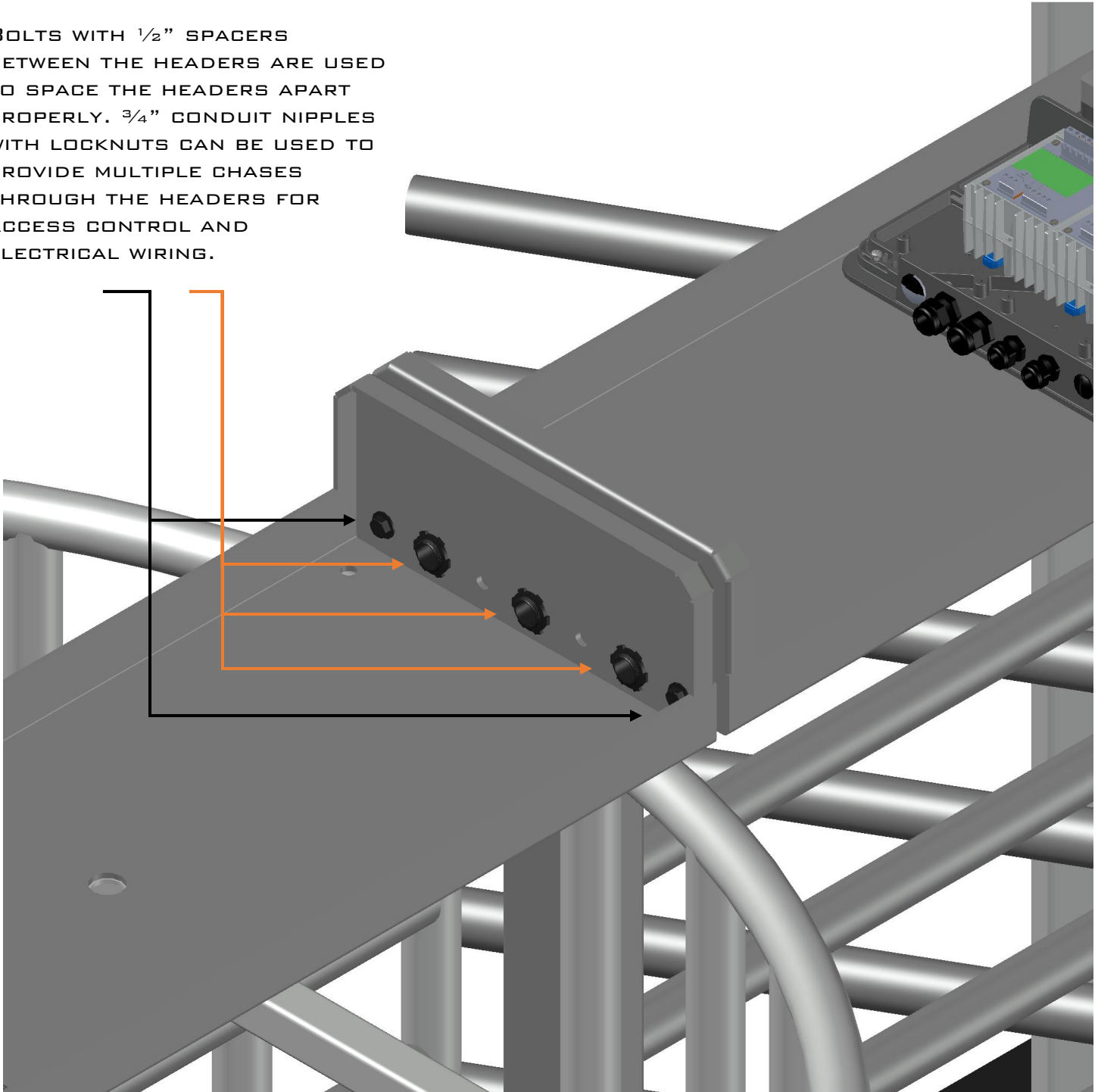


6. THE ROTORS ARE NOT THE SAME ON A TANDEM TURNSTILE. INSTALL THE ROTORS SO THAT THE ARMS FIT IN BETWEEN THE COMB ARMS. ONCE PLACED ON THE BOTTOM BEARING ASSEMBLY TIP THE ROTOR INTO PLACE AND INSTALL THE SPLINE SHAFT. BELOW IS CORRECT ALIGNMENT OF THE ROTORS WHILE LOCKED.

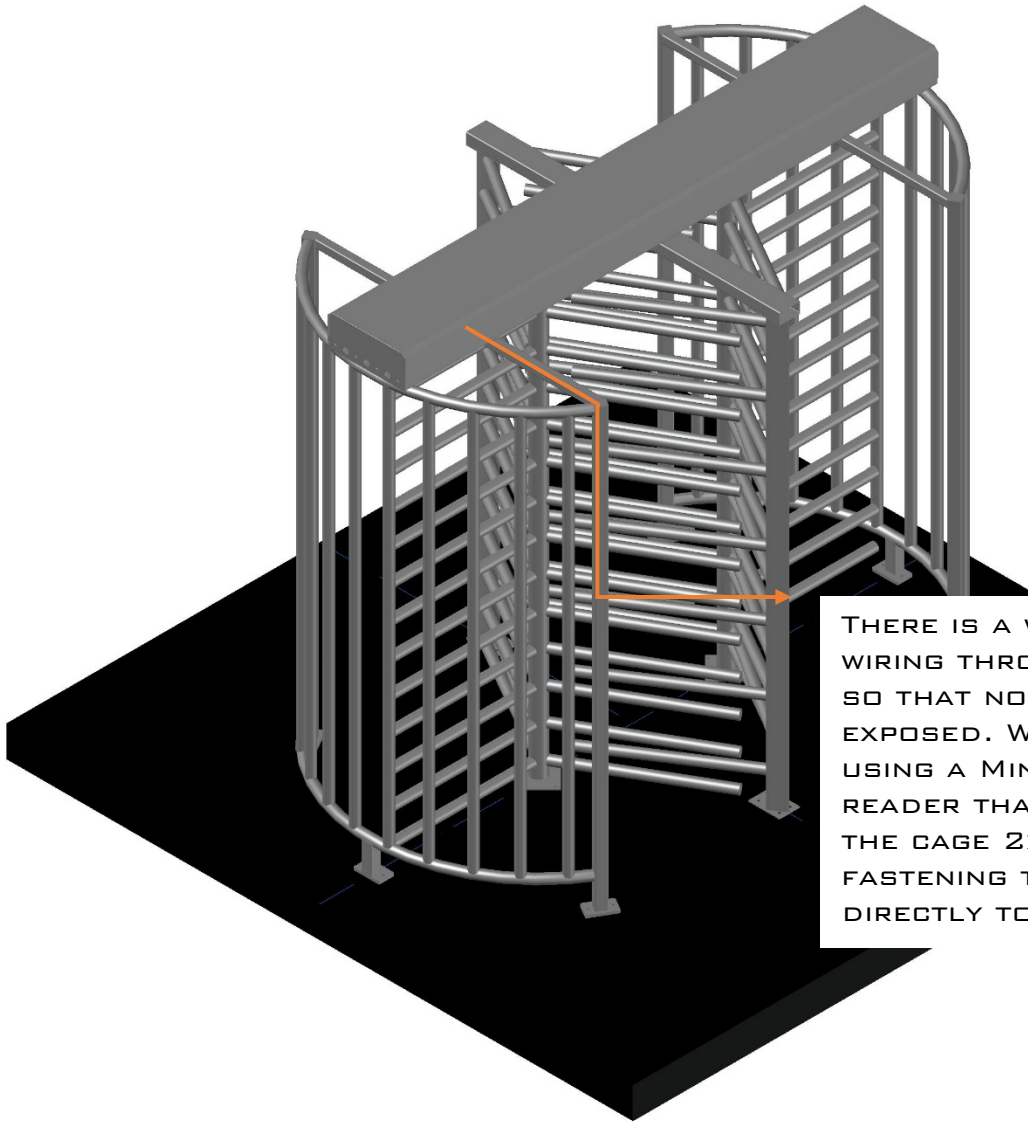


7. IF YOU HAVE ADDITIONAL TURNSTILES OR ADA GATES THAT GO IN THE ENTRANCE ARRAY, USE THE BOLTS IN THE HARDWARE BOX TO BOLT THEM TOGETHER WITH THE  $\frac{1}{2}$ " SPACERS BETWEEN THE HEADERS.

BOLTS WITH  $\frac{1}{2}$ " SPACERS BETWEEN THE HEADERS ARE USED TO SPACE THE HEADERS APART PROPERLY.  $\frac{3}{4}$ " CONDUIT NIPPLES WITH LOCKNUTS CAN BE USED TO PROVIDE MULTIPLE CHASES THROUGH THE HEADERS FOR ACCESS CONTROL AND ELECTRICAL WIRING.



1. INSTALL THE LID. CONSULT WITH ELECTRICIANS AND ACCESS CONTROL CONTRACTORS TO APPLY POWER AND CONTROL THE TURNSTILE WITH ACCESS CONTROL SYSTEM.



THERE IS A WIRE CHASE FOR WIRING THROUGH THE CAGE SO THAT NO WIRING IS EXPOSED. WE RECOMMEND USING A MINI MULLION READER THAT WILL FIT ON THE CAGE 2X2 AND FASTENING THE READER DIRECTLY TO THE CAGE.

## ELECTRICAL REQUIREMENTS

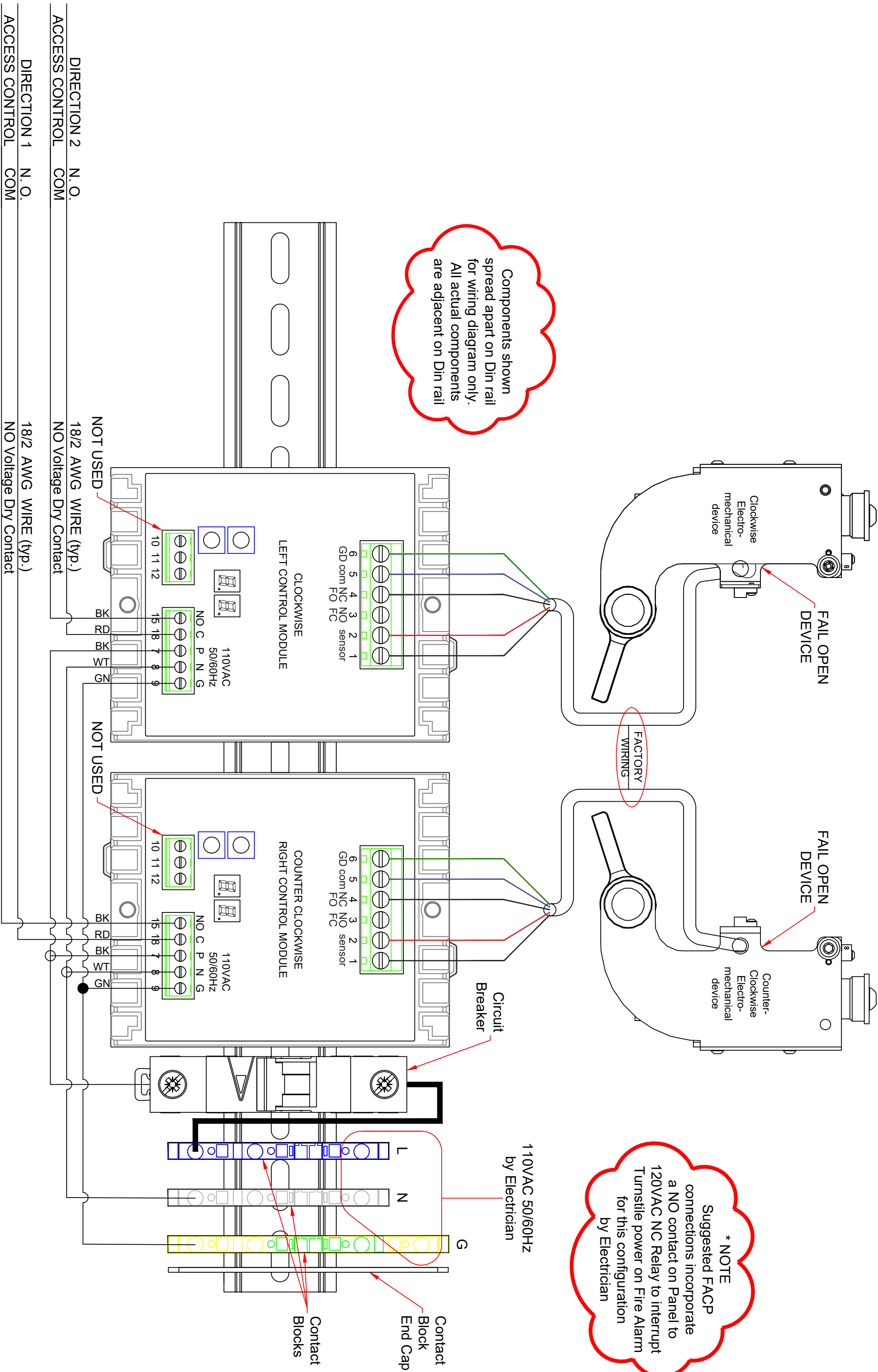
INPUT VOLTAGE	120V (240V SPECIAL ORDER)
FREQUENCY	50/60 HZ
AMPERAGE DRAW	.5 – 1 AMPS (UNLESS ENCLOSURE HEATER IS ADDED = +5 AMPS)
OPERATING TEMPERATURE	-40 °F – 120 °F

## ACCESS CONTROL REQUIREMENTS

INPUT TRIGGER	NORMALLY OPEN DRY CONTACT / NO VOLTAGE
MINIMUM TRIGGER PULSE	1 SECOND
RECOMMENDED WIRE SIZE	18G 18/4
FIRE RELEASE	FIRE RELAY REMOVES POWER FROM TURNSTILE IN CASE OF EMERGENCY (TURNSTILE MUST BE CONFIGURED WITH FAIL OPEN SOLENOIDS TO ACHIEVE THIS)



\* DIMENSIONS MAY VARY IN ACTUAL INSTALLATION - FABRICATION CHANGES RESERVED - SIMILAR EQUIPMENT MAY BE SUBSTITUTED \*



\* NOTE  
Suggested FACP connections incorporate a NO contact on Panel to 120VAC NC Relay to interrupt Turnstile power on Fire Alarm for this configuration by Electrician

Components shown spread apart on Din rail for wiring diagram only. All actual components are adjacent on Din rail



# TURNSTILES.us

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FIRST DRAWN	BY
01-01-20	JJM JR
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WIRING DIAGRAM	
AG Series Full Height Turnstile Wiring Schematic (No Counter)	
DWG	AG SERIES WIRING DIAGRAM
DATE	01-01-20
SHEET - 1 OF 1	



# AG-SERIES TURNSTILE MAINTENANCE

## Annual Recommended Inspection and Maintenance for AG Series Turnstiles

- Remove the lid from the header.
- Clean out the header of any dust and debris.
- Take out center shaft by lifting it out of the top of the locking mechanism (you may need a pair of channel locks to grip the shaft).
- Add grease when reinserting the shaft, for ease of future maintenance.
- Lift the center rotor off of the bearing, inspect bearing, re-grease with red grease or replace if necessary. Make sure that the rotor is oriented properly with the arms facing the middle / center of the cage. If replacement is necessary the bottom bearing part number is AGRB10.
- Test electrical function by triggering turnstile to unlock in each direction.
- Shut off the equipment breaker in the header of the turnstile, make sure that fail-open and fail-close are functioning properly.
- If your turnstile is equipped with lights, verify that all directional lights are working properly, replace bulbs or module as necessary.

## **WARRANTY AND DISCLAIMER**

### **WARRANTY**

THANK YOU FOR YOUR INTEREST IN OUR PRODUCTS AND SERVICES.  
THIS LIMITED WARRANTY APPLIES TO PHYSICAL GOODS, AND ONLY FOR  
PHYSICAL GOODS, PURCHASED FROM OUTLAW INDUSTRIES.

### **WHAT DOES THIS LIMITED WARRANTY COVER?**

THIS LIMITED WARRANTY COVERS ANY DEFECTS IN MATERIAL OR WORKMANSHIP  
UNDER NORMAL USE DURING THE WARRANTY PERIOD.

DURING THE WARRANTY PERIOD, MANUFACTURER WILL REPAIR OR REPLACE, AT  
NO CHARGE, PRODUCTS OR PARTS OF A PRODUCT THAT PROVES DEFECTIVE  
BECAUSE OF IMPROPER MATERIAL OR WORKMANSHIP, UNDER NORMAL USE AND  
MAINTENANCE.

### **WHAT WILL WE DO TO CORRECT PROBLEMS?**

OUTLAW INDUSTRIES WILL REPAIR THE PRODUCT AT NO CHARGE, USING NEW OR  
REFURBISHED REPLACEMENT PARTS.

### **HOW LONG DOES THE COVERAGE LAST?**

THE WARRANTY PERIOD FOR PHYSICAL GOODS PURCHASED FROM OUTLAW  
INDUSTRIES IS 18 MONTHS FROM THE DATE OF SHIPMENT TO THE END USER.

### **WHAT DOES THIS LIMITED WARRANTY NOT COVER?**

THIS LIMITED WARRANTY DOES NOT COVER ANY PROBLEM THAT IS CAUSED BY:

- CONDITIONS, MALFUNCTIONS OR DAMAGE NOT RESULTING FROM DEFECTS IN  
MATERIAL OR WORKMANSHIP
- SHIPPING COST FOR REPAIR, OR DAMAGE FROM SHIPPING

### **WHAT DO YOU HAVE TO DO?**

TO OBTAIN WARRANTY SERVICE, CONTACT US TO DETERMINE THE PROBLEM AND THE  
MOST APPROPRIATE SOLUTION FOR YOU. IF DEFECTS ARE CONSIDERED PRODUCT MUST BE  
SHIPPED BY CUSTOMER TO THE MANUFACTURER, IF DEFECTS ARE COVERED UNDER  
WARRANTY PRODUCT WILL BE REPAIRED AND SHIPPED BACK TO CUSTOMER.