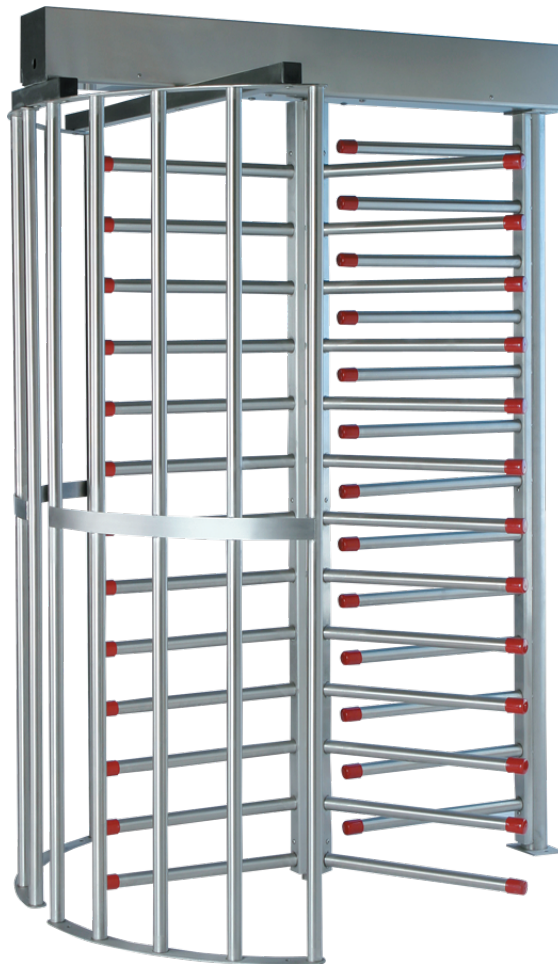




HS400 Series Single Full Height Turnstile

Service & Installation Manual



Note: Successful turnstile installation depends on reading this manual.

Please keep this service manual after installation. If an installation is done by a construction company or outside installer, please pass this book along to the end user. This book is required for maintenance, troubleshooting & repairs.

Important Electrical Information

Installation of the control head mechanism into the turnstile requires a grounding-type outlet receptacle installed inside of the frame or cabinet through the provided conduit access points.

To reduce the risk of electric shock, this equipment has a grounding type plug that has a third (grounding) pin. This plug will only fit into a grounding type outlet. If the plug does not fit into the outlet, contact a qualified electrician to install the proper outlet. Do not change this plug in any way.

Additionally, the P24-60W power supply from this appliance must be grounded to the frame of the turnstile. Utilize the green colored grounding screw threaded into the grounding tab located near the power supply along with the provided grounding wire from the power supply to ensure the equipment is properly grounded.

Do not connect to a receptacle controlled by a switch.

UL 294 Classification Declarations:

Feature	Level
Destructive Attack Test	I
Line Security	I
Endurance	IV
Standby Power	I

ULC S319, Class 1

Wiring methods shall be in accordance with:

National Electrical Code, ANSI/NFPA 70

Canadian Electrical Code, CSA C22.1, Part I, Safety Standard for Electrical Installations

The 6500 Series Control Head is suitable for indoor & outdoor use, within in an appropriate turnstile or gate model.

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The High-Security Series

HS427-S | HS430-S | HS439-S | HS448-S

Full-Height Turnstile (Single) | Interior & Exterior Application

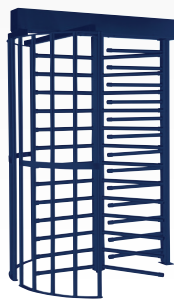
Controlled Access manufactures the most reliable full-height turnstiles available. The High-Security Series units can be engineered to meet all your security and control requirements, and can be created as stand-alone units, or as part of an integrated system. Available in stainless steel (304 or 316), carbon steel with powder coating, or hot-dipped galvanized finish. These units can be fitted for any application with leading edge technology and features.

Controls and Interfaces:

- Biometric Integration
- Fail-Open or Fail-Secure Locking
- Card Readers
- Push-Button and Wireless Remotes
- Electronic/LCD Counters
- Manual Key Override - both directions
- Indicator Lights



Optional black or safety orange end caps available.



Also available in hot-dipped galvanized or powder coat finishes.



Size Options (pedestrian clearance):

HS427-S: 27" (685.8mm)

HS430-S: 30" (762mm)

HS439-S: 38.5" (978mm)

HS448-S: 49.319" (1252.7mm)

304 Stainless, No. 4 Satin finish (shown)

Optional full canopy available in stainless steel.



Shown (below) HS430-S powder coated turnstile with optional ADA Mesh Gate and custom size Filler Barrier (made to your job's requirements)



Standard powder coating color selections:

Additional colors available and can be quoted upon request.

60% Gloss Black	60% Gloss White	RAL 1013 Oyster White	RAL 9007 Grey Aluminum	RAL 5023 Distant Blue	RAL 5010 Gentian Blue	RAL 6002 Leaf Green	RAL 8028 Terra Brown

We're the #1 Choice of Top Architects, Security Pros and Engineers

For more than 30 years, Controlled Access has been the globally trusted name in pedestrian control equipment. Made in Ohio and shipped worldwide, we are the first choice of leading architects, facility managers, security consultants, and engineers. Whether your project requires high security full-height turnstiles, waist high units, or matching ADA accessible gates, Controlled Access is the secure choice. We're experienced in access control systems, from card readers to biometric scanning, to give you the power to control access.

	Depth	Width	Passage Width	Passage Height	Overall Height
	A*	B*	C*	D*	E*
HS427-S	57.375" (1457.3mm)	62" (1574.8mm)	27" (685.8mm)	84" (2133.6mm)	91" (2311.4mm)
HS430-S	59.250" (1505mm)	66" (1676.4mm)	30" (762mm)	84" (2133.6mm)	91" (2311.4mm)
HS439-S	76" (1930.4mm)	84" (2133.6mm)	38.5" (978mm)	84" (2133.6mm)	91" (2311.4mm)
HS448-S	96.187" (2443.1mm)	106" (2692.4mm)	49.319" (1252.7mm)	84" (2133.6mm)	91" (2311.4mm)

* Dimensions subject to change without notice. See CAD drawings on reverse side

CONTROLLED ACCESS, INC.
Turnstiles and ADA Gates
The Leader in Pedestrian Access Control

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Toll-Free Ph: 800.942.0829 | Toll-Free Fax: 800.942.0828
E-mail: sales@controlledaccess.com

The High-Security Series

HS427-S | HS430-S | HS439-S | HS448-S

Full-Height Turnstile (Single) | Interior & Exterior Application

Applications:

Ideal for controlling orderly flow of foot traffic in both indoor and outdoor settings

Design & Construction:

- Designed for secure operation with aesthetics in mind
- Featuring fully welded exterior components
- Minimal exposed stainless steel hardware
- Heavy gauge materials meeting ASTM standards

Dimensions:

HS427-S

- **Pedestrian Clearance:** 27" (685.8mm)
- **Width:** 62" (1574.8mm)
- **Depth:** 57.375" (1457.3mm)

HS430-S

- **Pedestrian Clearance:** 30" (762mm)
- **Width:** 66" (1676.4mm)
- **Depth:** 59.250" (1505mm)

Arm & Barrier Tubing Sizes (HS427-S & HS430-S):

- Standard: 1 1/2" (38.1mm) diameter 14 gauge
- Optional: 1 3/4" (44.4mm) diameter 14 gauge (16 gauge - Stainless Steel models)

HS439-S

- **Pedestrian Clearance:** 38.5" (978mm)
- **Width:** 84" (2133.6mm)
- **Depth:** 76" (1930.4mm)

HS448-S

- **Pedestrian Clearance:** 49.319" (1252.7mm)
- **Width:** 106" (2692.4mm)
- **Depth:** 96.187" (2443.1mm)

Arm & Barrier Tubing Sizes (HS439-S & HS448-S):

- Standard: 1 3/4" (44.4mm) diameter 14 gauge

All Models:

- **Overall Exterior Height:** 91" (2311.4mm)
- **Passage Height:** 84" (2133.6mm)
- **Removal of Cover:** Minimum of 4" needed

* Dimensions are subject to change without notice

Available Finishes:

- Hot dipped galvanized carbon steel
- Carbon steel with powder coating
(standard color is black/ other colors available upon request)
- Our signature 304 stainless steel, No. 4 satin finish, or 316 stainless

Operation Features

6500 Series Control Head:

- Auto-indexing (self-centering) with adjustable hydraulic shock suppression
- Hardened tool steel locking bars, cam and roller assemblies
- Permanently lubricated bearings
- Your choice of manual or electronic control on both directions
- Nearly universal integration to any number of access control systems
- Your choice on each electronic direction of locking or unlocking on power failure

Options:

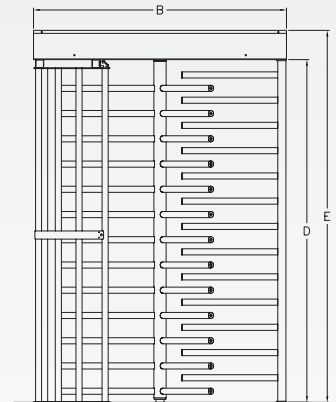
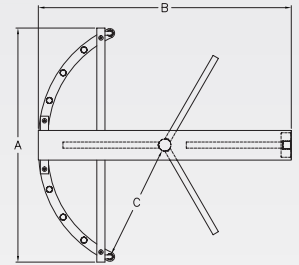
- Card reader mounting plates
- Daylight visible indicator lights
- Bi-directional key overrides
- Lockout bar (padlock not included)
- Decorative arm caps
- Stainless steel overhead full canopy
- Half canopy (covers passageway)
- 8 digit key resettable LCD counter with seven year lithium battery
- Cold weather package, including thermostat controlled heater and insulated mainframe
- Push button and wireless remotes
- Heel guard arm covers
- Additional options available upon request

Warranty:

Units are warranted against defects in materials and workmanship for a period of one year from date of delivery. See warranty information for specific details.

Matching Swing Gate available:

(see model HS336 and model HS348 Manual Passage Gate information)



* Dimensions are approximate based on chart on reverse side

Electrical Specifications:

Input Voltage: 100-240 VAC
Input Current: 1.3 - .55 A
Frequency: 50/60 Hz

Storage Temperature: -40 to 158°F
Operating Temperature: -4 to 131°F
(Cold weather package available)

Operating Voltage: 24VDC
Operating Current: 1.2 A (typical)

Standards and Codes:

Austenitic stainless steel:
ASTM A240, A249, A276

Hot rolled steel:
AISI C-1020, AISI C-1018

Hot dipped galvanizing:
ASTM A-143, ASTM A-153-80

All fasteners provided meet IFI ANSI/
ASME Fastener Standards

American Welding Society (AWS)
Standard D 1.1



The 6500 Series Control Head is certified to conform to the following standards:
UL 294, UL 325, UL Subject 2593, CAN/ULC S319 & CSA C22.2#247



Controlled Access, Inc. is certified by Advantage International Registrar to be an ISO 9001:2015 company

HS400 Series Single Full Height Components

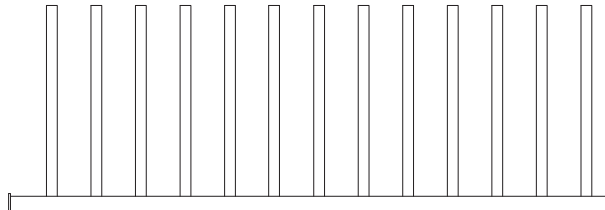
Each HS400 Series single full height turnstile comes with the following components:

1x Main Channel



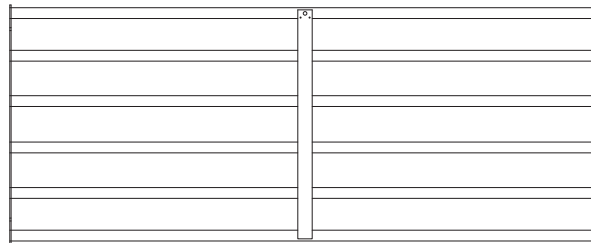
Wrapped in foam & cardboard to protect the cover's finish.

1x Barrier Assembly



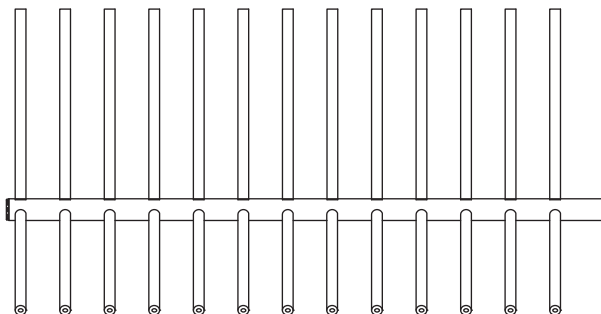
Constructed with 2" x 2" square tubing or 3" round tubing depending on model.

2x Yoke Assemblies



Quantity of poles varies between model sizes.

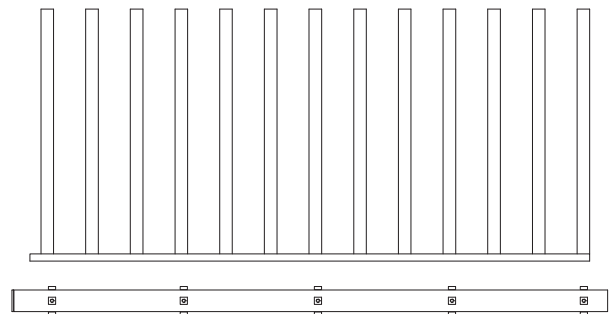
1x Rotor Assembly



427/430 & all stainless steel models

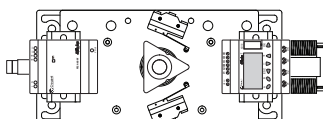
Or...

1x Center Column & 3x Arm Assemblies



Carbon steel 439/448 models

1x 6500 Series Control Head



Preconfigured as ordered, appearances may vary.

Not Shown: Fastener Kit, Optional Components

High Security Series Single Full Height Turnstile Fasteners

All High Security Series Full Height Single Turnstiles

- Qty 4 - 3/8"-16 x 1.5" carriage bolts with nuts, washers & lock washers
For mounting the control head to the mainframe
- Qty 4 - 3/8"-16 x 1.5" carriage bolts with nuts
For mounting the two yoke assemblies to the cross arms
- Qty 2 - 3/8"-16 x 1.5" carriage bolts with nuts, washers and lock washers
For mounting the barrier assembly to the main channel
- Qty 4 - 3/8"-16 x 3" carriage bolts with nuts, washers and lock washers
For mounting the cross arms to the main channel
- Qty 1 - 5/8"-11 x 4.5" concrete anchor with nut, bearing block and greased roller bearing
For the rotor's bearing assembly to the concrete
- Qty 4 - 2" x 2" square ribbed black plugs
For decorative plugging of the ends of the cross arms

HS427 & HS430 Single Full Height Turnstiles

- Qty 6 - 3/8"-16 x 4" concrete anchors with nuts and washers
For mounting the two yoke assemblies and the barrier assembly to the concrete

HS439 & HS448 Single Full Height Turnstiles

- Qty 10 - 1/2"-13 x 1" socket head cap screws with lock washers (carbon steel models only)
For mounting the arm assemblies to the center column
- Qty 4 - 3/8"-16 x 3.75" concrete anchors with nuts and washers
For mounting the two yoke assemblies to the concrete
- Qty 4 - 1/2"-13 x 3.75" concrete anchors with nuts and washers
For mounting the barrier assembly to the concrete

HS448 Single Full Height Turnstiles Only

- Qty 4 - Additional 3/8"-16 x 3.75" concrete anchors with nuts and washers
For mounting the two yoke assemblies to the concrete (8 total 3/8" anchors)
- Qty 2 - Additional 2" x 2" square ribbed black plugs (HS448 models only)
For decorative plugging of the ends of the center cross arm (6 total plugs)

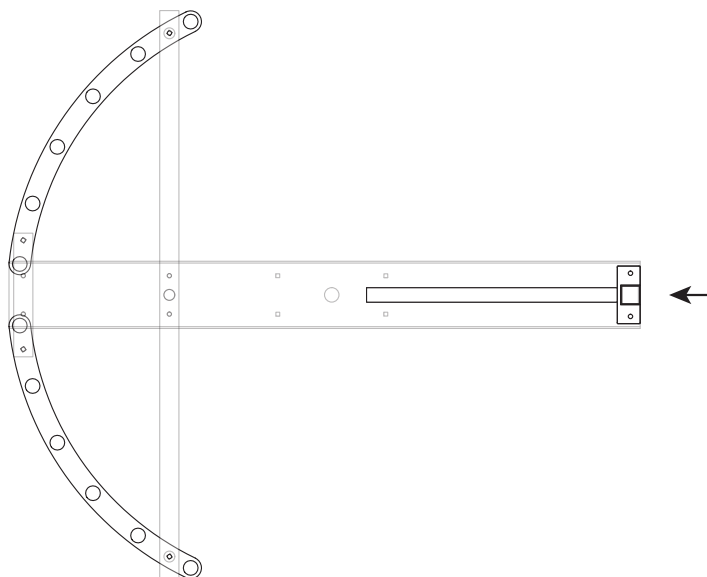
Note: HS427 & HS430 models share a universal fastener kit.
Some options (such as canopies) may alter fastener requirements.

Full Height Pre-Installation Electrical Tips

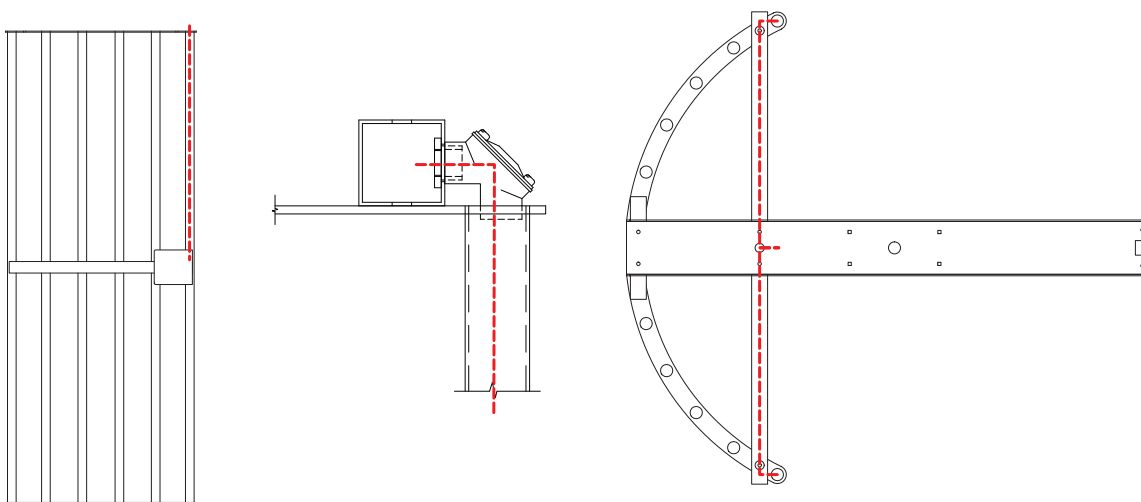
If the unit is to be electronically controlled, pre-plan how it will be wired. We provide several options for running conduit to each turnstile.



Each end of the main channel is designed to accept up to two 3/4" conduits, and also allow for multiple units to be bolted together.

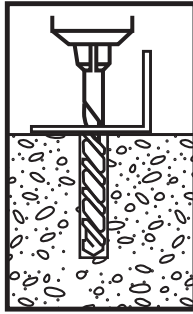
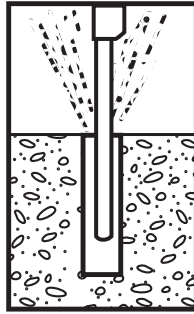


The stationary barrier (which runs vertically from the concrete to the mainframe) acts as a conduit raceway with an I.D. of over 1.75" x 1.75".



If equipped with optional card reader plates, the reader's cabling goes through the back of the plate into the vertical yoke tube (drilling required), into the long cross arm via a provided fitting, and finally into the mainframe itself. Access control contacts to the controller should be at least 18 gauge. A normally open contact closure is required for each direction (and if used, each directional override).

Wedge Type Concrete Anchor Instructions


1

2

3

4

- 1** Select a carbide drill bit with a diameter equal to the anchor diameter. Drill hole at least 1/4" deeper than nominal anchor embedment.
- 2** Clean hole with pressurized air or vacuum to remove any excess dust/debris.
- 3** Using the washer and nut provided, assemble the anchor, leaving nut one half turn from the end of anchor to protect threads. Drive anchor through fixture to be fastened until washer is flush to the surface of fixture.
- 4** Expand anchor by tightening nut to the specified setting torque - see Table (approx 3 to 5 full revolutions).

Anchor Diameter & Drill Bit Size	Installation Torque Ft. lbs.*	Minimum Anchor Embedment	Minimum Hole Diameter in Fixture
3/8"	25	1-7/8"	1/2"
1/2"	45	2-1/2"	5/8"
5/8"	90	2-3/4"	3/4"

* Setting torque only applies at the time of installation.

Warning!

- ⚠** Use in concrete ONLY. Not recommended for use in lightweight masonry such as block or brick.
- ⚠** Always wear safety glasses and other necessary protective devices or apparel when installing or working with anchors.

Caution: Use of core drills is not recommended to drill holes for use with this anchor.

Do not use an impact wrench to set or tighten the anchor. Not recommended for use in concrete which has not had sufficient time to cure.

The use of carbide drill bits manufactured with ANSI B212.15 drill bit diameter requirements is recommended for installation of this anchor. Anchor spacing and edge distance (anchor installation locations) are the responsibility of the engineer of record.

Installing product in oversized holes is not recommended. Product will not set properly or achieve full designed load in oversized holes.

Installation Instructions

- 1.) If needed, pour a level concrete pad at least 4" thick and 4" greater than the unit's length and width in each direction. Model specific diagrams are available if needed.
- 2.) Unpack turnstile(s) and verify all parts are included. Use the parts checklist in the beginning of this book.
- 3.) Unwrap the main channel from the cardboard & foam packaging. Remove the 4x 10/24 truss head screws and lift the cover off.



- 4.) Remove the cross arms from inside of the main channel and identify the different sides to the cross arms. HS448 models have a third cross arm for stability. Note that optional canopies affect the cross arms as well. See canopy diagram provided with option for proper assembly technique in that instance.

Short Cross Arm

Has holes on two sides. Length varies by model.

Upper View (2x Holes)
Touching the main channel



Under View (4x Holes)
Facing the floor



Center holes may be large or small depending on model.

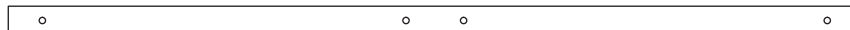
Long Cross Arm

Has holes on three sides. Length varies by model.

Upper View (5x Holes)
Touching the main channel



Under View (4x Holes)
Facing the floor



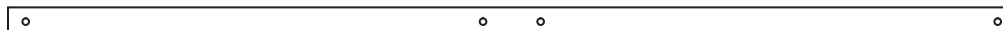
Side View (2x Holes)
Facing in towards center



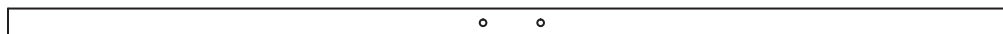
Center Cross Arm (HS448 Models Only)

Has holes on two sides

Upper View (4x Holes)
Touching the main channel

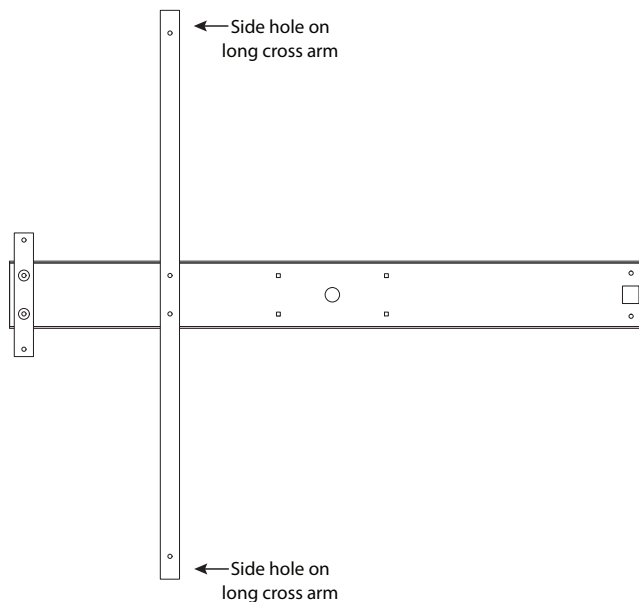


Under View (2x Holes)
Facing the floor

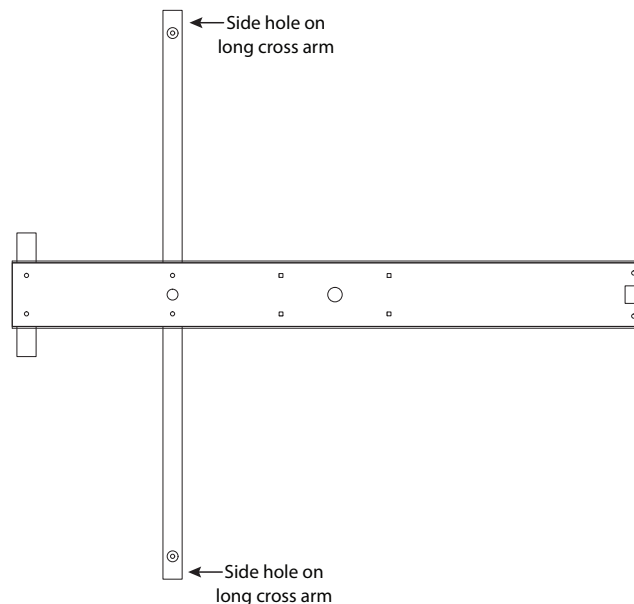


Installation Instructions (continued)

5.) Assemble cross arms to mainframe using the provided 3/8" x 3" carriage bolts as illustrated below. Ensure cross arms are square to mainframe and that the cross arms are flipped the correct way before attaching. Note that the carriage bolts have square heads and may need to be hammered into the round holes of the cross arms.

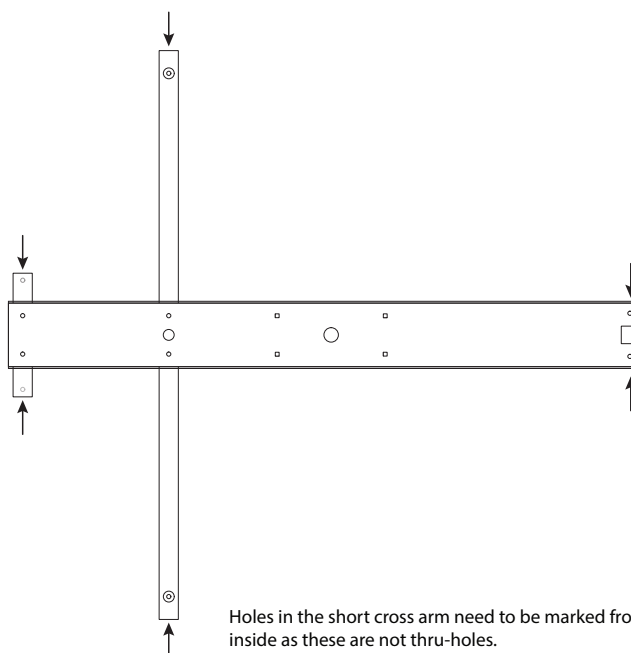


Under View



Upper View

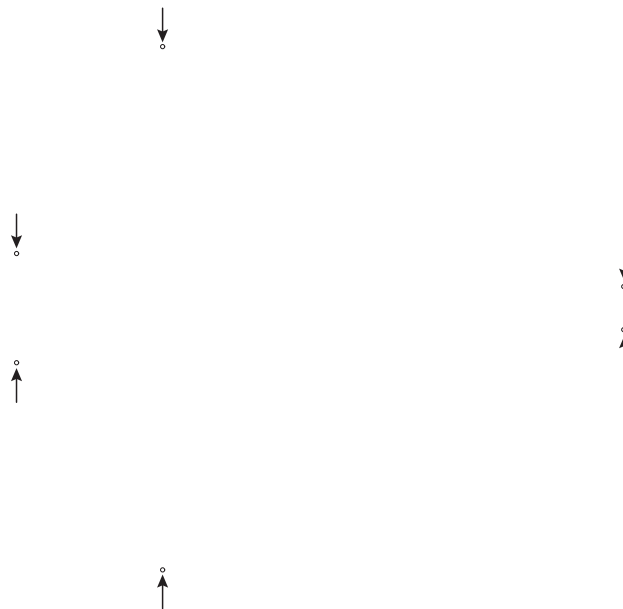
6.) Utilizing the assembled mainframe, mark holes on the ground for the 3/8" concrete anchors to each of the marked holes below.



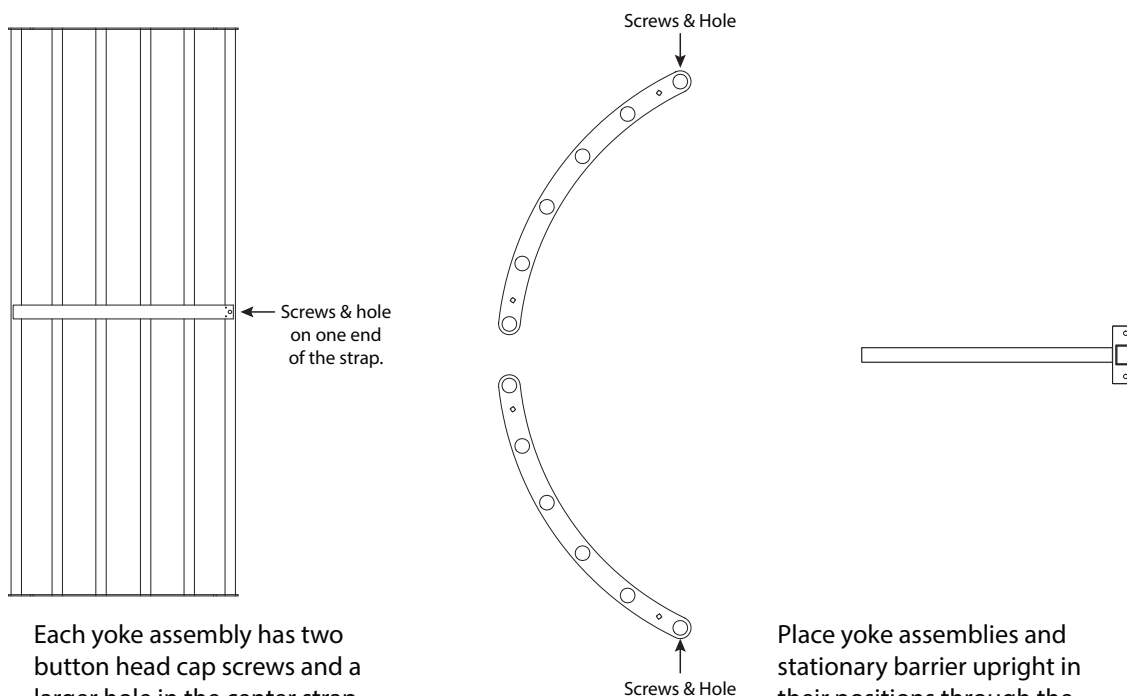
Holes in the short cross arm need to be marked from the inside as these are not thru-holes.

Installation Instructions (continued)

7.) Following the concrete anchor installation directions, drill each of the marked holes marked for the 3/8" anchors. Be sure to remove debris from holes before installing the anchors.



8.) Install the curved yoke assemblies and stationary barrier upright onto the concrete over the anchors. Take special notice of the two screws and extra hole on one side of the yoke strap. These screws and holes are for card reader mounting plates and should be facing outward when bolting down.

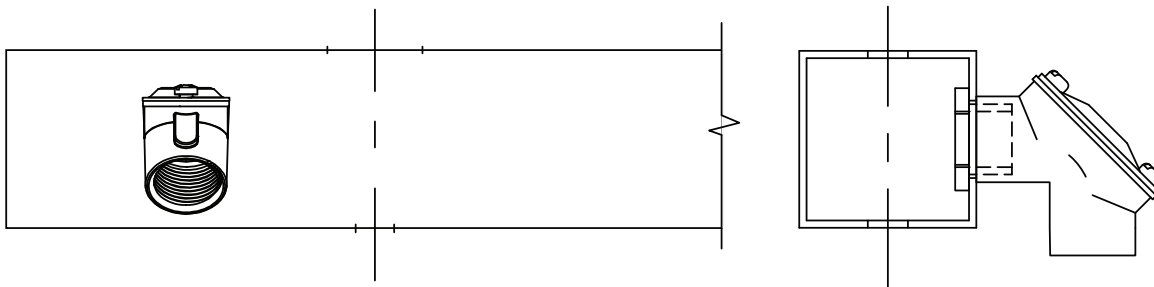


Each yoke assembly has two button head cap screws and a larger hole in the center strap. Take notice of this for the next step.

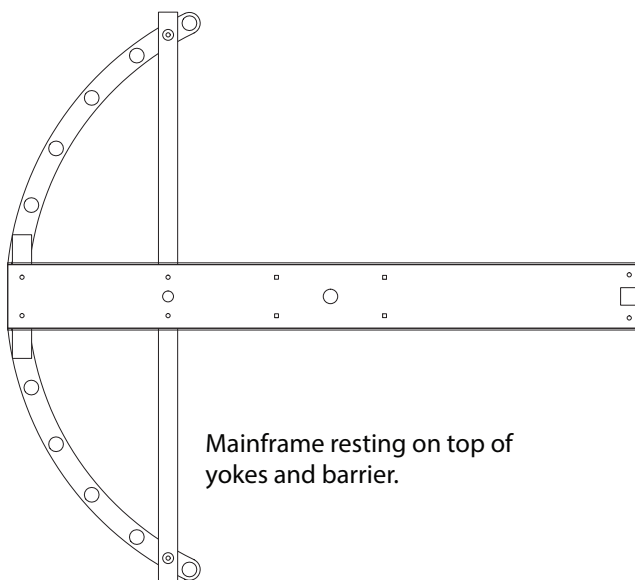
Place yoke assemblies and stationary barrier upright in their positions through the anchors. The two screws and extra hole should be facing away from the center.

Installation Instructions (continued)

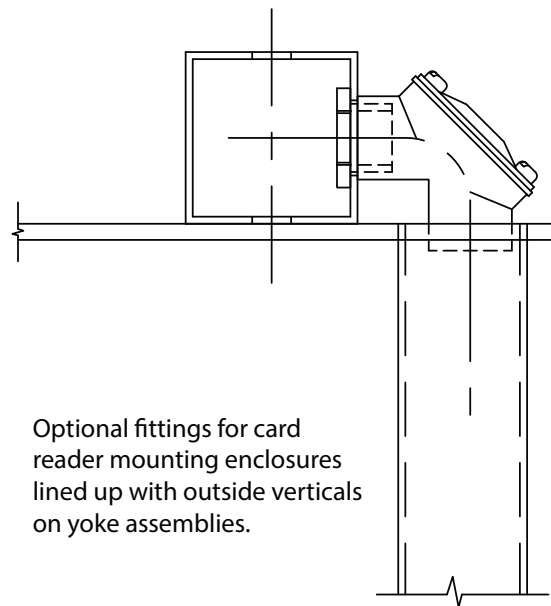
9.) If ordered with optional card reader mounting enclosures, remove the plastic plugs from the side holes of the long cross arm and install the elbow fitting (packaged with enclosures in control head box) by placing the threaded chase nipples inside of the box tubing and spinning the fittings into place. The fittings need to be pointing downward to the ground when complete.



10.) Place assembled mainframe on top of yokes and stationary barrier. Install carriage bolts to attach components together. The square necks of the carriage bolts may need to be hammered into the round holes of the cross arms. If equipped, the elbow fittings will line up above the outside vertical tubing on the two yoke assemblies.



Mainframe resting on top of yokes and barrier.

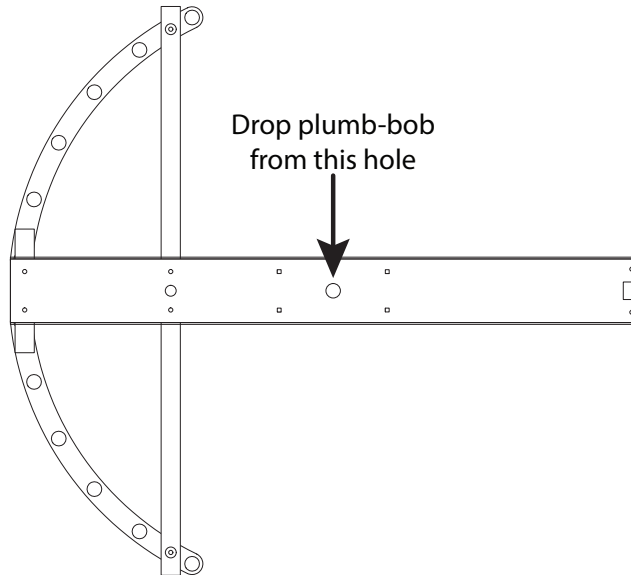


Optional fittings for card reader mounting enclosures lined up with outside verticals on yoke assemblies.

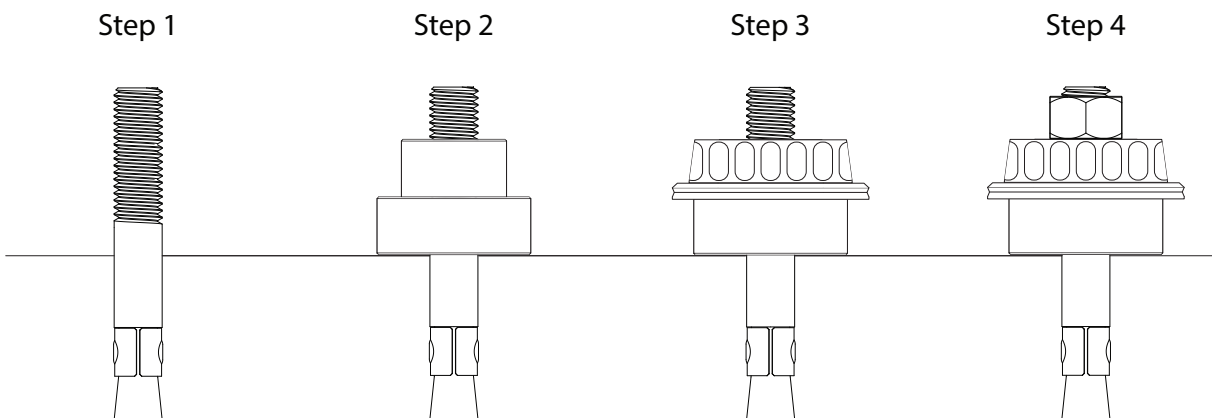
Installation Instructions (continued)

11.) If necessary, level the mainframe by shimming from under the yokes and the barrier. Once level, secure these components to the concrete by adding the nuts to the anchors.

12.) Once level and secure, use a plumb-bob to find the center for the rotor by dropping it from the mainframe's output hole. Mark the concrete for drilling in this position.

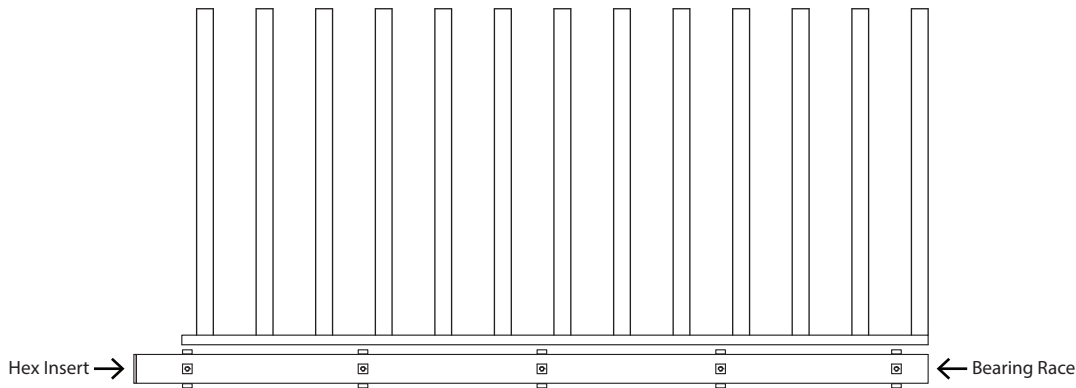


13.) Drill hole for 5/8" concrete anchor in the marked position and remove dust. Install concrete anchor, bearing block, greased roller bearing and nut as shown below. There is no need for a flat washer on this component.



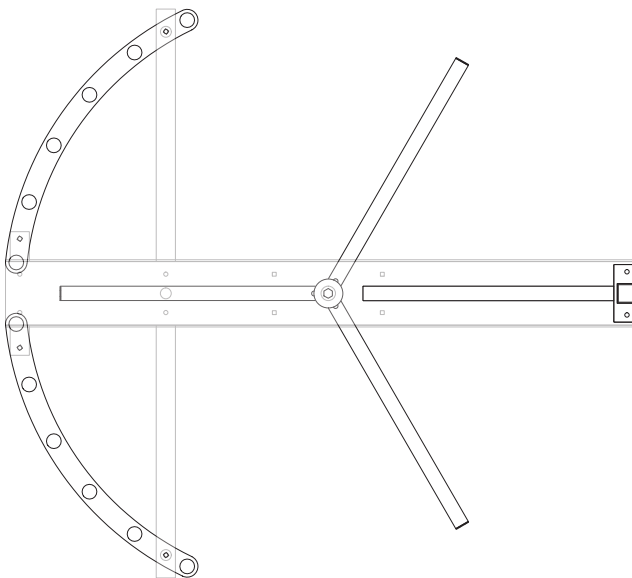
Installation Instructions (continued)

14.) If unit is a carbon steel 439 or 448, attach arm assemblies to center column using provided 1/2" socket head cap screws and lock washers. The arms should be arranged so that the lowest arm is nearly flush with the bottom of the rotor (bearing race side).



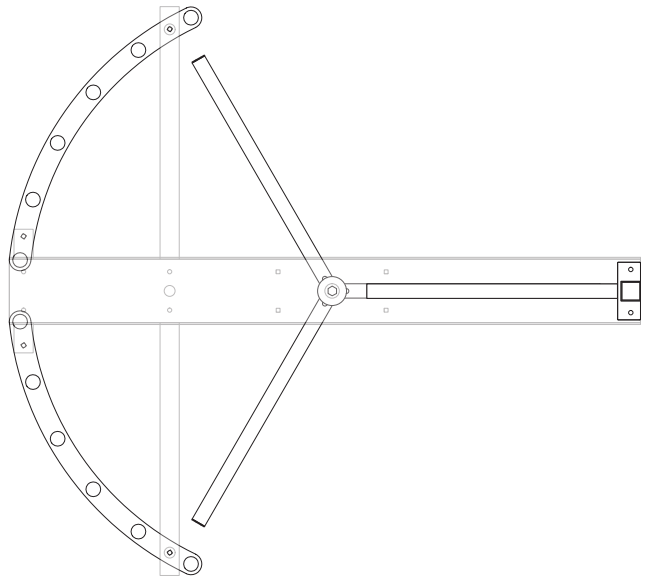
15.) Place rotor assembly on bearing and align rotor to correct position. Take the time to review the diagram shown below for details. This step is critical to proper operation. Failure to properly align the rotor will cause operational issues.

Correct Alignment



Rotor has one set of arms in between two half-moon yokes in home position. Arms are not meshed with stationary arms on the barrier.

Incorrect Alignment



Rotor should **NOT** have one set of arms meshed with stationary arms on barrier with the other two sets of arms pointing to the outsides of the half-moon yokes.

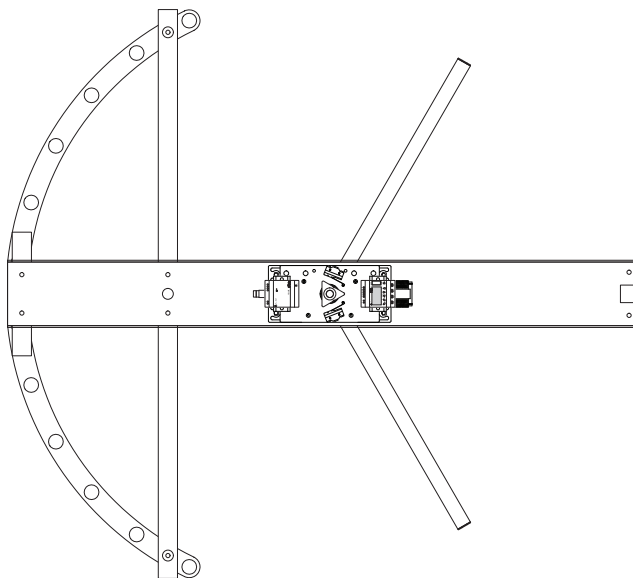
CRITICAL INSTALLATION STEP: Place rotor onto bearing and align it so that there is one set of arms pointing to the center of the half-moon shaped yokes, not meshed together with the arms of the stationary barrier.

Failure to properly align the rotor can cause inconsistent operation and the **possibility to become trapped within the turnstile** in some scenarios. If the rotor was installed incorrectly, the solution is to fix the rotor alignment. Do not adjust access control or logic controller settings to accommodate the improper alignment.

Simply remove the four carriage bolts holding the 6500 Series Control Head to the mainframe, pull up on the control head to remove it as one assembly, spin the rotor to the correct position, then reinstall the control head into the mainframe.

Installation Instructions (continued)

16.) With the rotor in the correct position, install the 6500 Series Control Head into the mainframe by feeding the hex output shaft into the hex insert in the top of the rotor assembly. Bolt the control head into the main channel with the provided 3/8 x 1.5" carriage bolts.



17.) If required, refer to the wiring diagram & legend for connecting access control to the turnstile.

18.) Refer to the hydraulic shock information to properly adjust the rotor's rotation. Ideally, the rotor should rotate to the home position, but do so without slamming. This prevents wear and tear on the control head assembly.

19.) Using a grease gun, fill the roller bearing grease cavity by utilizing the grease fitting located about 3/4" from the bottom of the rotor. In the factory, we use Mobil Mobilgrease XHP 222 Special with Lithium Thickener, but a simple white lithium or similar grease is suitable.

20.) Test the turnstile to ensure it is functioning properly, reinstall the cover on the top of the unit once satisfied, and keep this book for future reference.

We are dedicated to making sure our customers are satisfied with the product we manufacture. If you need any assistance, don't hesitate to contact us.



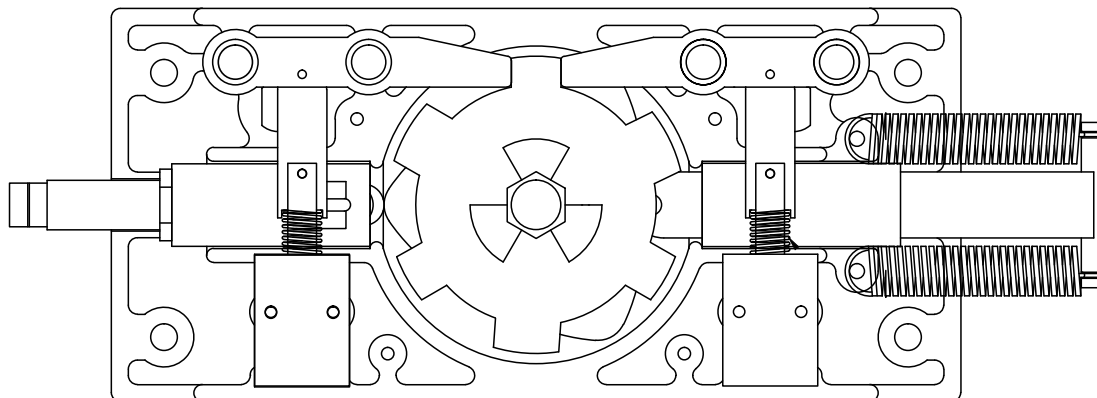
Phone: (330) 273-6185

Toll Free: (800) 942-0829

E-mail: sales@controlledaccess.com

6500 Series Control Head Mechanical Information

All of our turnstiles and ADA gates operate with a mechanism called the 6500 Series Control Head. This sturdy and easy to maintain drive for the turnstile has replaced all previous model control heads. It is adaptable to nearly any existing turnstile and comes with each new turnstile purchase. This control head can be configured in multiple ways to accommodate the security requirements of each individual job site.

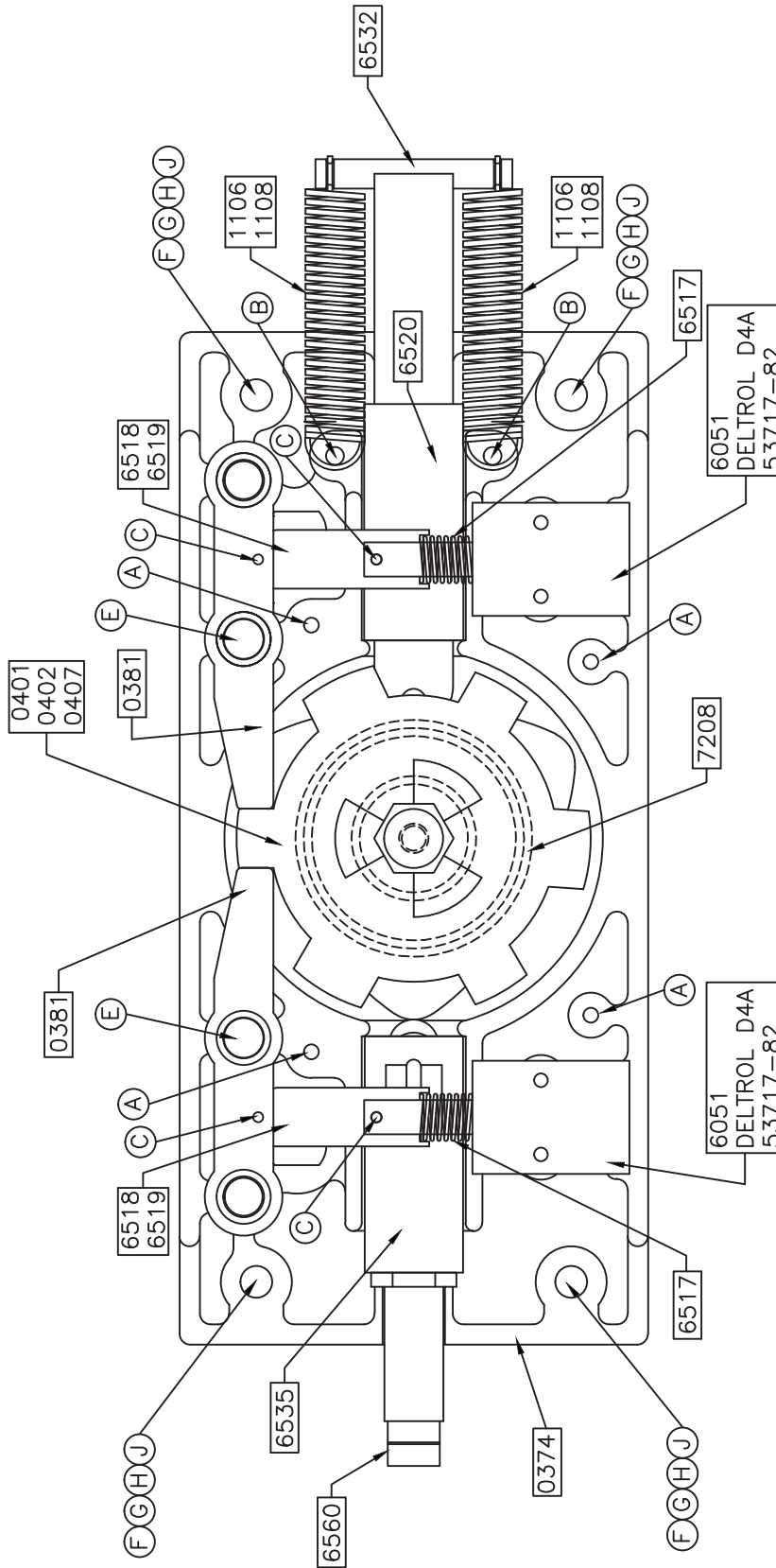


An internal view of an electronically controlled two way 6500 series control head.

While the head can be configured for mechanical (no electronics) operation, a turnstile's security potential is reached in the case of an electronic two way control head. In this instance, each rotational direction is independently unlocked. Configured properly, a control head will allow for one rotation per valid entry request. Our anti-backup cams are designed so that it is mechanically impossible to become trapped within the turnstile when properly installed.

Each control head comes preconfigured to your specific needs based off of a directional sheet that is filled out before shipment. The heads are delivered pre-wired, tested and adjusted to our factory recommendations. Installation is simple: connect inputs from access control devices into the logic controller and plug the unit's power supply into a 100-240 VAC (single phase) receptacle. The power supply will automatically set itself to function on your local voltage and convert it to 24VDC.

TOP CASTING REMOVED



ALL ELECTRICAL COMPONENTS UL CERTIFIED

NOTE:
ALL WIRE AWG 18 GAUGE 300 VAC
UL 1007/1569

CA CONTROLLED ACCESS, INC.
Turnstiles and ADA Gates

SYM	QTY	DESCRIPTION
(A)	4	1/4-20 x 1" SOCKET HEAD
(B)	2	1/4"φ x 1 1/4" SPRING PIN
(C)	4	1/8"φ x 5/8" SPRING PIN
(E)	2	1/2"φ X 2 1/4" DOWEL PIN

WAIST HIGH UNITS		
(F)	4	5/16 x 1-1/2" SS CARRIAGE BOLT
(G)	4	5/16 SS FLAT WASHER
(H)	4	5/16 SS LOCK WASHER
(J)	4	5/16 SS HEX NUT

FULL HEIGHT UNITS		
(F)	4	3/8" x 1-1/2" SS CARRIAGE BOLT
(G)	4	3/8 SS FLAT WASHER
(H)	4	3/8 SS LOCK WASHER
(J)	4	3/8 SS HEX NUT

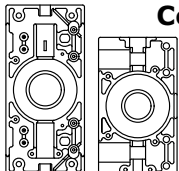
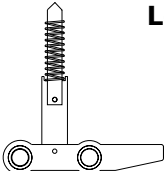
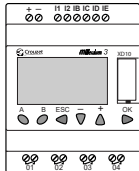
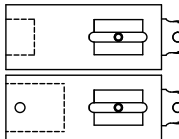
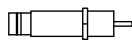
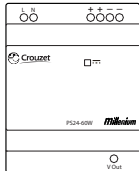

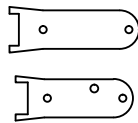

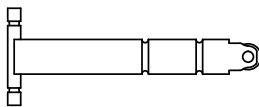
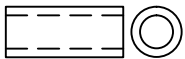

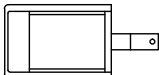
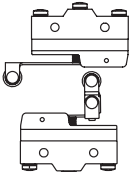


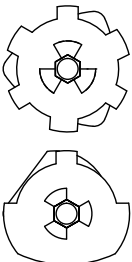
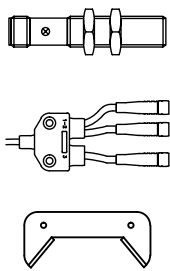
6500 SERIES CONTROL HEAD BOTTOM ASSEMBLY



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1636 W. 130th St.
Brunswick, OH 44212

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Web: www.controlledaccess.com
Email: sales@controlledaccess.com

Complete control heads are
available upon request.
Contact us for pricing details.

 <p>Control Head Castings</p> <p>0373 - Bottom Casting \$199.23</p> <p>0372 - Top Casting \$199.23</p>	 <p>Locking Bar Assemblies</p> <p>0382 - Fail Open Assembly \$82.47</p> <p>0383 - Fail Lock Assembly \$82.47</p>	 <p>0740 - Logic Controller (XD10) \$255.18</p>
 <p>Shock Housing Assemblies</p> <p>6535 - WH/427/430/T80/ADA \$171.59</p> <p>6541 - 439/448/P60/HD \$180.21</p>	 <p>Hydraulic Shock Absorbers</p> <p>6560 - WH/427/430/T80/ADA \$173.02</p> <p>6561 - 439/448/P60/HD \$250.92</p>	 <p>0750 - 24VDC Power Supply (60 W) w/ NEMA 5-15 Drop Cord \$166.76</p>
 <p>0381 - Locking Bar Casting w/ Oil Impregnated Bushings \$39.69</p>	 <p>Locking Bar Linkages</p> <p>6519 - Fail Open \$11.12</p> <p>6518 - Fail Lock \$11.12</p>	 <p>Solenoid Springs</p> <p>6510 - Fail Open Spring \$8.18</p> <p>6016 - Fail Lock Spring \$8.18</p>
 <p>6532 - Index Pin \$120.35</p>	 <p>6520 - Index Pin Tubing \$29.92</p>	 <p>Indexing Springs</p> <p>1106 - Waist High (Light) \$5.91</p> <p>1108 - Full Height (Heavy) \$5.91</p> <p>1107 - ADA (Extra Heavy) \$5.91</p>
 <p>6051 - Solenoid Deltrol D4A53717-82 \$60.36</p>	 <p>Limit Switches</p> <p>2180 - Standard (Z-15GW2-B7-K) \$20.57</p> <p>1700 - One Way (BZ2RW825-A2) \$49.90</p>	 <p>Limit Switch Cams</p> <p>2267 - Standard \$27.81</p> <p>2268 - ADA \$27.81</p> <p>2269 - One-Way \$27.81</p>
 <p>Control Head Bearings</p> <p>7208 - Bottom Casting (6007RSNR) \$5.57</p> <p>1641 - 1" ID for HD Top Castings & All Pre-2018 Tops (1641-2RSNR) \$6.71</p> <p>1640 - 7/8" ID for Standard Duty Top Castings (1640-2RSNR) \$5.35</p>	 <p>Cam Assemblies</p> <p>0401 - 427/430/T80/WH (7/8 Hex) \$240.02</p> <p>0407 - 439/448/P60/HD (1.25" Hex) \$264.81</p> <p>0402 - ADA (Must specify model) \$211.12</p>	 <p>Proximity Sensor & Accessories</p> <p>7211 - 24VDC PNP Prox. Sensor w/ M12 Connector (Sick 1040763) \$82.62</p> <p>0766 - 3 Branch M12 Splitter \$135.08</p> <p>6589 - Turnstile Prox. Bracket w/ 3x Mounts - LH, RH & Home \$10.80</p>

6500 Series Control Head Configurations

The 6500 Series Control Head can be configured in a number of different ways. All units operating with the 6500 Series Control Head self-center with a spring driven indexing pin and hydraulically shock to the home position to prevent damage or injury.

Various configurations are available to suit the needs of any environment. These include:

Manual both ways: Unit rotates freely in both directions. This unsecure configuration is used as a means to direct traffic through one area. Full height turnstiles can also be purchased with an out of service lockout bar which would allow the end user to lock the turnstile with a standard pad lock.

Manual one way: Turnstile rotates in one direction but not the other. This is often used for egress only areas.

Electronic one way with free exit: Unit rotates freely in one direction but requires some form of access control in the other. This is a typical installation in many facilities that want to control who is entering but want egress to be free flowing.

Electronic one way with no exit: Turnstile is locked in both directions at all times, but in one direction can be unlocked with access control. Typically, this would be installed in scenarios where there is an alternate means of exiting the facility.

Electronic two way: Turnstile requires access control for both entering and exiting a facility. This configuration offers the highest level of security and also flexibility for installations.

Fail lock: Upon power failure, an electronically controlled direction would remain locked. This offers a high level of security but typically is not a good idea for egress unless alternate methods of exiting are available. Unless equipped with key overrides, this can be easily converted to fail open by ordering alternate parts. This is also known as fail secure.

Fail open: Upon power failure, an electronically controlled direction would remain open. This is the most common configuration as it allows for secure access controlled passage in normal situations but in power outages it free wheels. Unless equipped with key overrides, this can be easily converted to fail lock by ordering alternate parts. This is also known as fail safe.

Key overrides: This option is available on either electronic or manual two way models. It can allow for a quick reconfiguration of free flowing passage or locking in either direction. The key override option is not intended for constant every day use. Should you require an additional lock-down feature on your turnstile, a better option (on a full height turnstile) is an out of service lockout with a standard pad lock. Note that the key override option makes conversion between fail lock and fail open very difficult to accomplish and also may not be available for some turnstile or gate models.

6500 Series Control Head Locking Bar Information

The 6500 Series Control Head is built to order based on a direction set up sheet sent with each quote. This sheet defines how each direction of passage functions.

Direction 1 is defined as clockwise rotation on a full height or with the cabinet on the right for waist high. Direction 2 is defined as counter-clockwise rotation on a full height or with the cabinet on the left for waist high.

Possible configurations include: no passage, free passage (manual), fail lock and fail open. Fail lock and fail open are not field reversible without additional components.

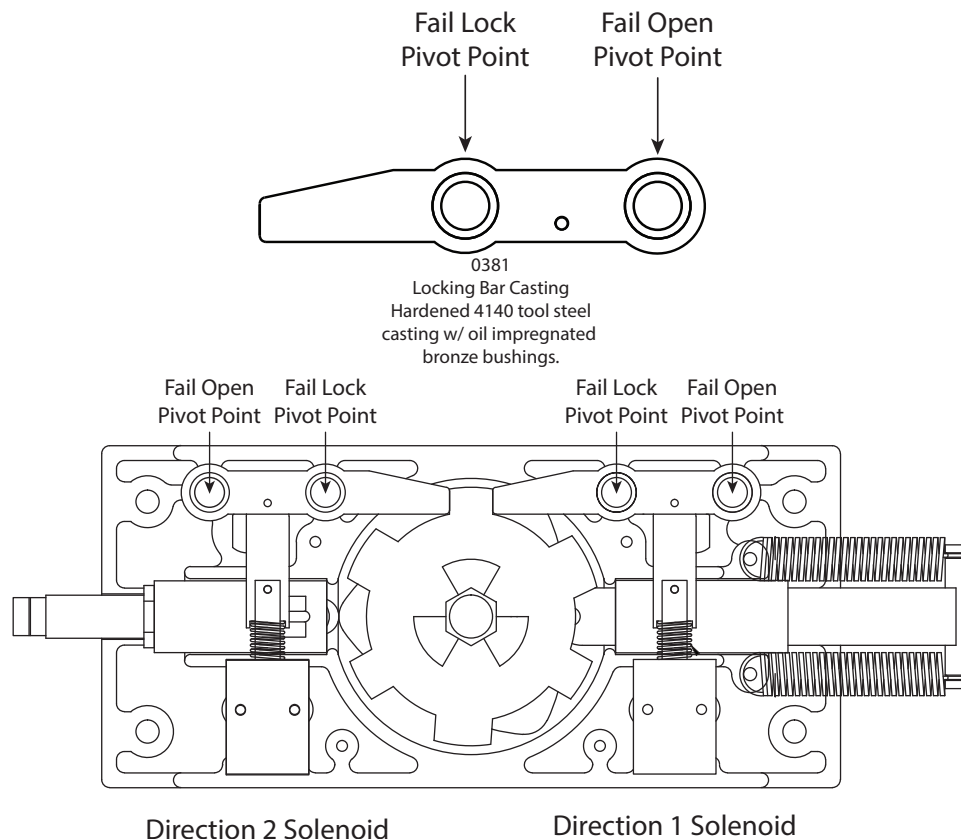
“No passage” directions include a fail lock locking bar assembly as well as an unwired solenoid. This adds the appropriate parts to the control head to prevent it from rotating in that direction.

“Free passage” (or manual) directions remove the solenoid and locking bar assembly, allowing the cam to spin freely.

Each direction has a pair of holes on the locking bar and control head casting. These holes act as pivot points for the locking bar casting. The inner holes are fail lock and outer holes are fail open. A .5” dowel pin slides through the entire assembly to hold everything in place.

Alternate linkages and springs are needed to convert a direction’s power failure status.

If optional key overrides are included, it becomes much more difficult to re-arrange the configuration. Typically it is best to send the control head into the factory to reconfigure any key override equipped head to ensure everything is done correctly.



6500 Series Control Head Locking Bar Information (Continued)

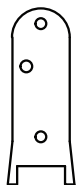
The 6500 Series Control Head can be reconfigured from fail lock to fail open and vice versa. Extra components are required to do so.

If a control head has key overrides, we suggest sending it in for factory reconfiguration.

Locking bar assemblies are held together with 1/8" spring pins. Extracting these pins and reinstalling them can be tricky, so for convenience we also offer entire locking bar assemblies.

Replacing an entire locking bar assembly is simple; punch the .5" dowel pin from the pivot point through the head casting (via a small hole in the bottom casting for this purpose), pull out the old locking bar assembly and replace it with the new one.

If changing from fail lock to fail open or vice versa, install the dowel pin in the alternate hole.



6518

Fail Lock Linkage

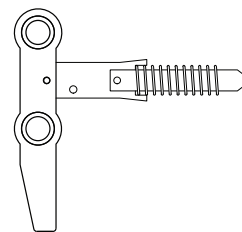
These have an approximate length of 2.25" and also include an extra hole the key override option.



6010

Fail Lock Solenoid Spring

These look the same as the fail open, but are actually lighter in force. Wire diameter is .032". This spring was also used on the 6100 Series Control Head.



0383

Fail Lock Locking Bar Assembly Includes locking bar casting w/ oil impregnated bushings, solenoid spring, locking bar linkage, and solenoid plunger.



6519

Fail Open Linkage

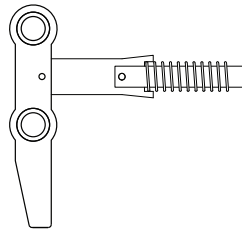
These have an approximate length of 2.5" and do not have the extra hole for the key override option.



6510

Fail Open Solenoid Spring

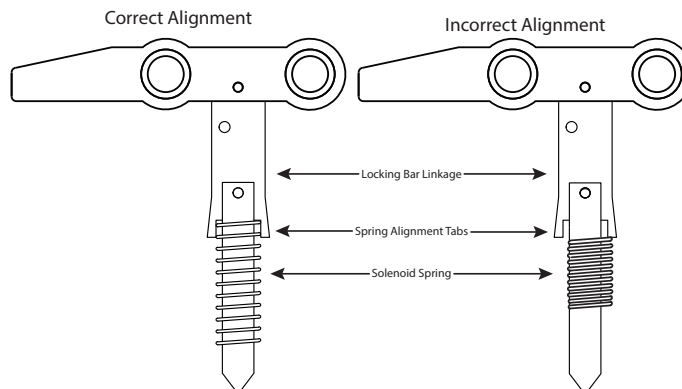
These look similar to fail lock, but are actually stronger in force. Wire diameter is .041".



0382

Fail Open Locking Bar Assembly Includes locking bar casting w/ oil impregnated bushings, solenoid spring, locking bar linkage, and solenoid plunger.

Make sure the solenoid spring is between the alignment tabs on the linkage or the assembly may bind when pivoting.

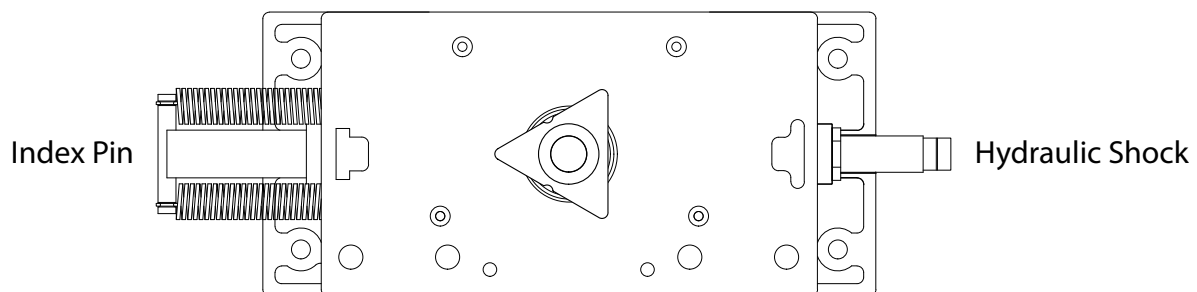


6500 Series Control Head Hydraulic Shock Information

The 6500 Series Control Head utilizes a spring loaded index pin for auto-centering the cam while a hydraulic shock offers counter resistance to slow the rotation down.

Set properly, the shock will allow a turnstile or gate to self-center while rotating smoothly without slamming.

Some turnstile models use a different shock than others. Waist highs and smaller full heights use a .75" diameter shock while larger full heights use a 1" diameter shock.



3/4" Hydraulic Shocks:

Setting:

Loosen the set screw on the head of the dial and turn the knob. The dial can be set between 0 and 8. The higher the number, the stronger the shock is. Tightening the set screw can alter the shock strength so a good habit is to loosen the set screw, turn the dial, tighten the set screw then test your setting. Repeat until satisfied.

Replacement:

Thread the new shock into the shock housing as far as it will turn while the cam is in the home position. Once it bottoms out, thread the shock back out 1.5 - 2 turns until the numbers on the dial are facing upright. Some models may require an additional turn or two outward if the arm does not self center on even the lowest setting.

1" Hydraulic Shocks:

Setting:

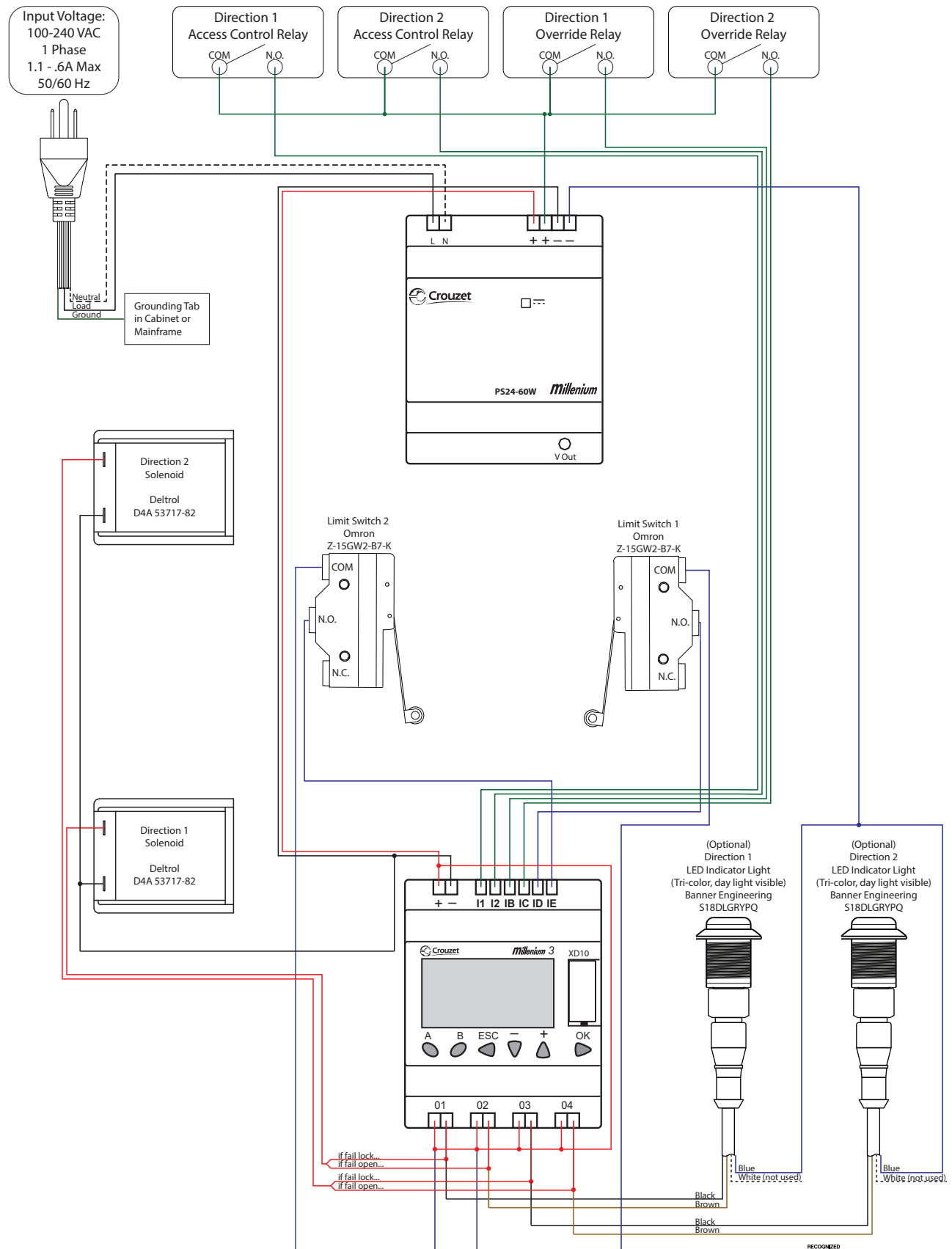
Loosen the set screw on the head of the dial and turn the knob. The dial can be set between 0 and 8. The higher the number, the stronger the shock is. Tightening the set screw can alter the shock strength so a good habit is to loosen the set screw, turn the dial, tighten the set screw then test your setting. Repeat until satisfied.

Replacement:

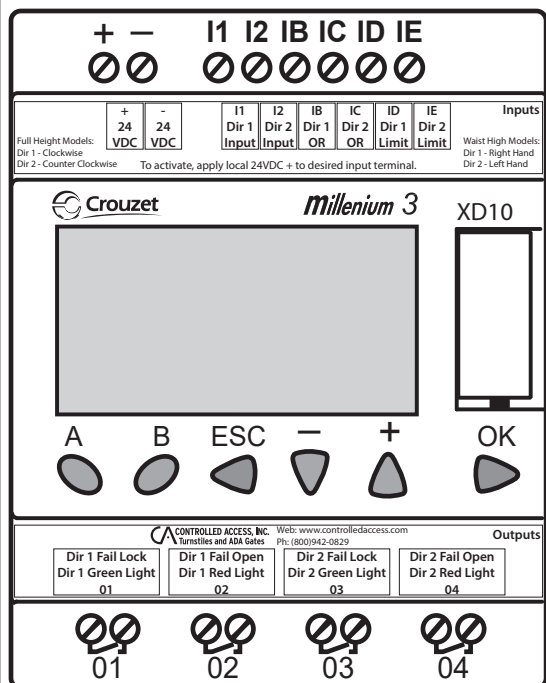
Thread the new shock into the housing as far as it will turn while the cam is in the home position. Once it bottoms out, thread the shock back out 1.5-2 turns until the set screw pointer is facing upright. Fasten the shock into the housing by snugging the 1/4-28 set screw into the bronze housing (snugly, but do not over tighten or the brass might start to tare).

Failure to turn the shock back out after threading it in all of the way will likely cause the part to wear out very quickly.

6500 Series Control Head w/ XD10 Controller Standard Wiring Diagram



6500 Series Control Head w/ XD10 Controller Standard Wiring Legend



General definitions:

Direction 1 - Clockwise on full height turnstiles or cabinet on right for waist high turnstiles & ADA gates.

Direction 2 - Counter clockwise on full height turnstiles or cabinet on left for waist high turnstiles & ADA gates.

Limit - A switch or sensor designed to detect rotation and lock the unit after a rotation.

Fail Lock - Upon power failure, the direction is designed to remain locked. Also known as Fail Secure.

Fail Open - Upon power failure, the direction is designed to remain opened. Also known as Fail Safe.

Each unit is built to order, preconfigured to function as specified at the time the order is placed. Some or all of the information listed may not be relevant to the installation.

Inputs are triggered with local 24VDC + (also known as PNP or sourcing).

Connect relay output from access control device to turnstile by terminating 24VDC + to relay common and the desired input to the relay's normally open terminal.

Be sure to disconnect power before wiring the board for safety.

Note: directional status outputs (lights) are unaffected by optional key overrides as the override occurs outside of the logic controller.

Input descriptions:

24VDC + Positive output from the 24VDC power supply connects here.

24VDC - Negative output from the 24VDC power supply connects here.

I1 - Direction 1 Input - Unlocks direction 1 for either one rotation or until the timer expires. Standard access control should terminate here.

I2 - Direction 2 Input - Unlocks direction 2 for either one rotation or until the timer expires. Standard access control should terminate here.

IB - Direction 1 Override - Holds direction 1 unlocked for duration of contact closure. Mainly for fire alarms and other temporary overrides.

IC - Direction 2 Override - Holds direction 2 unlocked for duration of contact closure. Mainly for fire alarms and other temporary overrides.

ID - Limit 1 Input - Cancels Direction 1 activation if triggered before timer expires, re-locking the unit after one rotation.

IE - Limit 2 Input - Cancels Direction 2 activation if triggered before timer expires, re-locking the unit after one rotation.

Output descriptions:

All 4 relay outputs have individual commons. 24VDC+ is distributed to each relay common to operate the turnstile. It is OK to add extra wires to these relay commons to distribute voltage to other devices.

01 - Output 1 - Dual purpose output for Direction 1. If the direction is fail lock, it's solenoid would connect here. If equipped with an indicator light, the green leg would connect here. Output switches from OFF to ON when directional input is triggered.

02 - Output 2 - Dual purpose output for Direction 1. If the direction is fail open, it's solenoid would connect here. If equipped with an indicator light, the red leg would connect here. Output switches from ON to OFF when directional input is triggered.

03 - Output 3 - Dual purpose output for Direction 2. If the direction is fail lock, it's solenoid would connect here. If equipped with an indicator light, the green leg would connect here. Output switches from OFF to ON when directional input is triggered.

04 - Output 4 - Dual purpose output for Direction 2. If the direction is fail open, it's solenoid would connect here. If equipped with an indicator light, the red leg would connect here. Output switches from ON to OFF when directional input is triggered.

Indicator light information:

Green Light - An indicator to inform pedestrians that they are allowed to pass through the unit. Uses black output wire from light's cable.

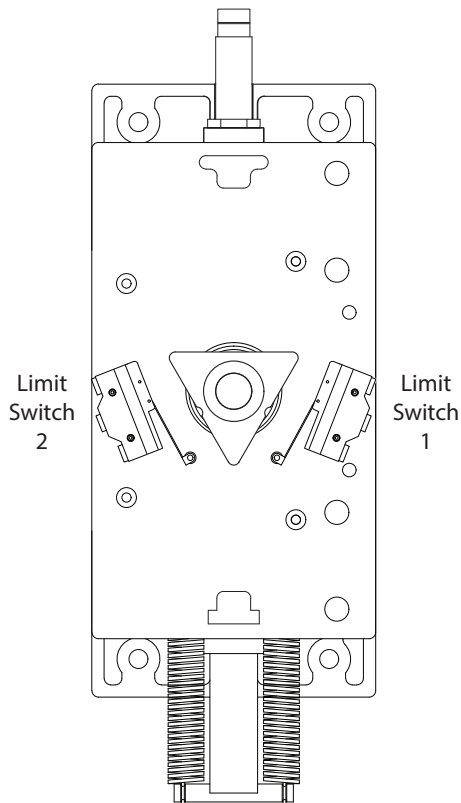
Red Light - An indicator to inform pedestrians that the unit is locked or that pedestrians require credentials to enter. Uses brown output wire from light's cable.

As a side note, indicator lights purchased from Controlled Access, Inc. can also be wired to glow **yellow**. If desired, this can be used instead of red with the unused white wire on the light's cable to indicate to pedestrians they require credentials to enter. This is especially handy for multi-lane installations in which some directions are "no passage" instead of "controlled passage". Likewise, green lights can also be wired to a red light output to constantly glow green to indicate "free passage".

6500 Series Control Head Limit Switch Information

Electronically controlled 6500 Series Control Heads utilize limit switches (or optionally, proximity sensors) in order to detect rotation. Depending on the type of unit (turnstile or ADA gate), the limit switch for a direction may be on the left or the right hand side of the control head.

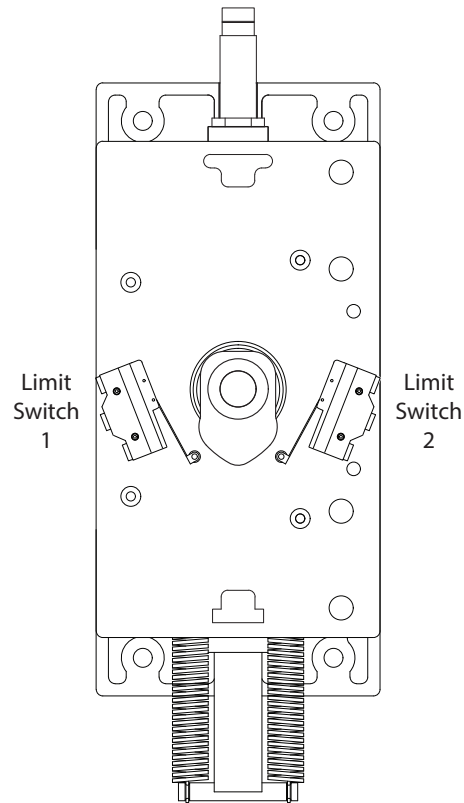
Turnstile Control Head



Turnstile control heads use a triangular shaped limit switch cam. One point of the triangle needs to be facing the index pin (bar with two springs) when the cam is in the home position. The two indents in the sides of the triangle are for jiggging purposes. It does not matter which point is facing to the springs.

The limit switch for direction 1 is on the right and the limit switch for direction 2 is on the left. In this configuration, the first limit switch triggered does not affect the unit. The second switch triggers after the half-way point of the rotation, which draws in the solenoid. This allows the rotation to go to home but prevents the rotor from backing in the other direction.

ADA Gate Control Head



ADA Gate control heads use an oblong lobe shaped limit switch cam. The point of the lobe needs to be facing the index pin (bar with two springs) when the cam is in the home position.

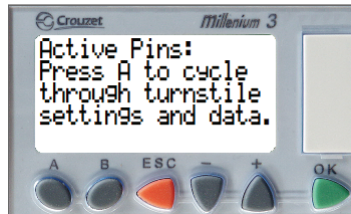
The limit switch for direction 1 is on the left and the limit switch for direction 2 is on the right. In this configuration, the limit switch relevant to the swing is triggered after the cam leaves home position, which re-engages the locking bar. The cam is still free to move until it swings back to the home position.

Options and configurations may alter the quantity or layout of the limit switches. Some examples of this would be electronically controlled one direction turnstiles, turnstiles with counters and turnstiles equipped with home position switches.

6500 Series Control Head w/ XD10 Controller Standard Turnstile Settings

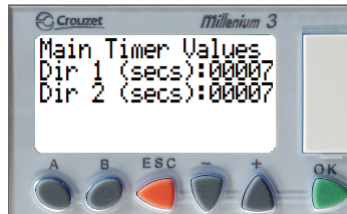
The XD10 logic controller on the 6500 Series Control Head has a text based menu screen to adjust settings and view statistics of the turnstile. Pressing the A button will cycle to each of the screens available on the device. Pressing B from any screen listed will return to the Home Screen.

Home Screen



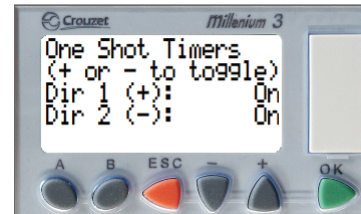
This screen is at the start of the menu cycle. The top section will give a read out of inputs that are currently receiving voltage. The display will return to this screen after cycling through all windows, 5 minutes of inactivity or pressing the B button.

Timer Values Screen



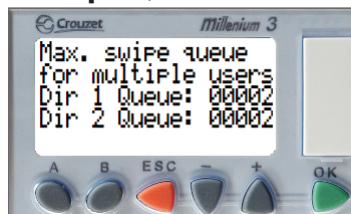
This screen allows for the each directional timer to be modified. Select which value you wish to edit by pressing the + & - key. Press OK to select the value then press + or - to modify. Save by pressing the OK button again. Each timer can have a value of 1 - 60 seconds. The timer will be canceled upon rotation of unit.

One-Shot Timers Screen



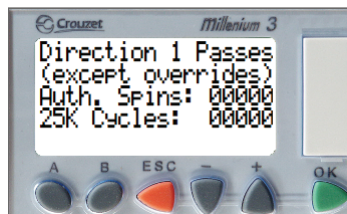
This screen allows for the two one-shot timer settings to be enabled or disabled. This setting prevents access control from holding open a direction on the standard direction inputs. Toggle Direction 1 by pressing + and Direction 2 by pressing -. This should be set to "On" in almost every installation.

Swipe Queue Screen



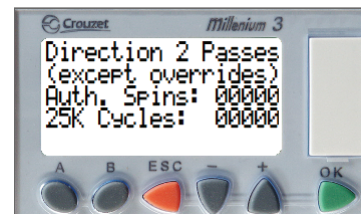
This screen defines the maximum number of access control requests the unit will allow in queue. Each value can be set from between 1 (for maximum security) to 3 (for fast paced passage). The default is 2. The method to change these settings is the same as the Timer Values Screen.

Direction 1 Counts Screen



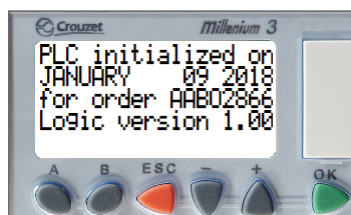
This screen gives statistics about how many times direction 1 was activated and cycled. Since there is a limit to how many counts can be displayed, after 25000 cycles the first counter resets and adds to the second counter.

Direction 2 Counts Screen



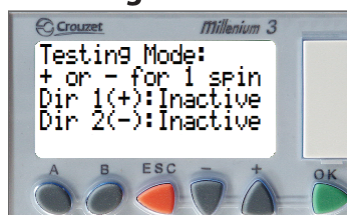
This screen gives statistics about how many times direction 2 was activated and cycled. Since there is a limit to how many counts can be displayed, after 25000 cycles the first counter resets and adds to the second counter.

General Info Screen



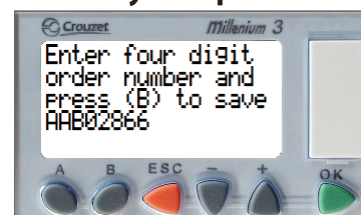
This screen displays when the PLC was initiated, the order number it was activated for (except for any revision suffixes which are not needed for order lookup), and the PLC software version.

Testing Mode Screen



While this screen is active, the unit can be tested with push buttons to simulate access control inputs. See the page dedicated to testing for more information.

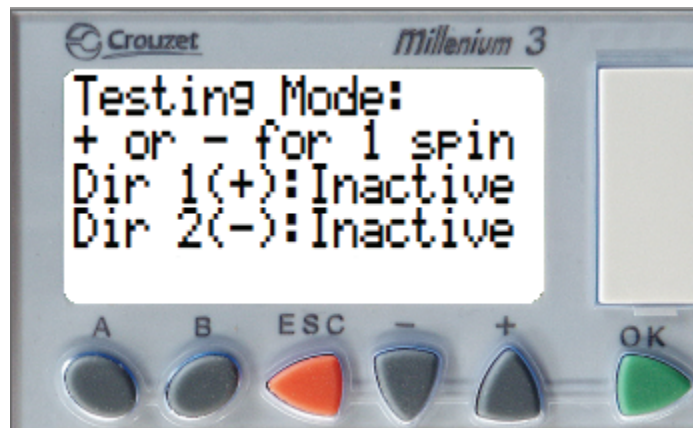
Factory Setup Screen



This screen should only appear when first set up in the factory or if something occurs to totally reset the logic controller. If this manages to occur and the order number (if known), enter it as a value then press B to save.

6500 Series Control Head w/ XD10 Controller Standard Turnstile Testing

The XD10 logic controller on the 6500 Series Control Head can be activated by contact closures between 24VDC+ and the relevant input. New technology allows for simpler on-board testing as well. To diagnose issues with the unit, press A on the keypad to cycle between screens until the testing mode screen appears.



Testing mode simulates valid access control inputs based on the settings defined on the other menu screens. The unit should unlock for the duration of the directional timer or until the unit is rotated. If the button is pressed twice, it should allow two rotations or time out based on the multi-swipe setting. If the button is held and the one shot timers are disabled, the unit will continue to remain open until the button is released and another rotation or timeout occurs.

With the testing mode screen open, press and release + to activate in direction 1. The unit should unlock and allow one rotation. If the unit successfully functions this way, repeat the same for direction 2 by pressing the - button.

If everything is functioning properly from the menu test but not with access control, either access control is not connected properly, is normally closed instead of normally open, or is not properly configured. Contact a security integrator for assistance with help with the access control system.

If the unit successful unlocks but does not re-lock upon rotation, try to manually trigger the appropriate limit switch for the direction that is not working correctly. If this helps, it is likely that the limit switch is not properly being triggered by the limit switch cam. Either adjust the height of the limit switch cam or tweak the lever on the limit switch a bit closer to the limit switch cam's tip.

If the unit does not successfully re-lock after manually triggering the limit switch, ensure that it is wired properly. Return to the home screen and press / hold the limit switch. If the switch is being held but the "Active Pins" display does not include the switch being held, it may be necessary to replace the switch. Note that there is a short delay from when the switch is triggered to when the display will register it as active, however this is normal.

If there are other issues with operation, check out the troubleshooting guide for additional diagnostic procedures or call Controlled Access, Inc. for assistance.

Maintenance & Cleaning

To ensure long life on any turnstile, the following maintenance is recommended. Note: these figures are assuming a maximum 75000 passages per year. Turnstiles with heavier traffic should be maintained more frequently.

Annual Servicing

- Secure all nuts & bolts throughout each model. This includes concrete anchors, carriage bolts holding together mainframes, and the bolts holding the control head assembly together.
- Remove the index pin assembly from the control head by disconnecting the two extension springs & apply white lithium grease. Use 3-in-1 oil on the index pin roller.
- If the unit is a High Security series full height turnstile, add grease to the rotor's roller bearing by utilizing the grease fitting fastened into the bottom of the rotor.

Biennial Servicing

- Disassemble the control head by removing the 4x socket head cap screws holding the top casting to the bottom casting (and the triangular limit switch cam if equipped).
- Clean any loose debris / grease from the inside of the casting.
- Inspect internal components for wear and replace as needed.
- Apply 3-in-1 oil to the bronze bushings on the locking bar assemblies and shock piston.
- Apply white lithium grease to the shock piston where it enters the bronze housing.
- Reassemble the control head assembly, using removable strength (typically blue) thread sealer (such as Loctite 243) on the head bolts to ensure the assembly stays together.

Cleaning

- Galvanized surfaces can be cleaned with soap and water. The finish may dull over time, but this is normal.
- Powder coated surfaces should be cleaned with a non-abrasive cleaner such as Formula 409. Inspect finish for chips and touch up as needed or the exposed steel may rust.
- Stainless steel surfaces should be polished with a stainless steel wax or polish. Contrary to common belief, stainless steel is not rust proof. Exposure to certain chemicals and harsh environments such as ocean air or chemical plants may cause surface corrosion. Minor discoloration can be removed with a rust penetrating product (such as PB Blaster) along with non-scratching scouring pads. Severe cases of contamination may require the use of specialty products. We have had great success with products such as Stellar Solutions' Citrisurf 2310 Rust Remover and Passivation Solution.
- The decorative solid surface tops on our Executive models, Beacon models and some PassThru models should be polished with furniture polish (such as Scott's Liquid Gold Wood Cleaner). Allowing the product to soak into the material for a few minutes easily restores the surface's luster.
- Polycarbonate plastic should only be cleaned following the plastic manufacturer's recommendations. **DO NOT USE ANY PRODUCTS THAT INCLUDE AMMONIA OR OTHER HIGH PH PRODUCTS.** If the model purchased includes polycarbonate plastic, see the section of the manual dedicated to cleaning it (starting on the next page). Failure to use appropriate cleaning methods will cause aesthetic and structural damage to the plastic which will not be covered under the warranty.

Control heads can be removed from the turnstile and shipped to the factory at any time for repairs and maintenance. Please include contact information so we can call to discuss any issues your control head may have. Please note that any repairs that cost under \$500.00 will require a credit card payment before being returned.

6500 Series Control Head w/ XD10 Controller Troubleshooting

Symptoms	Causes	Solutions
Turnstile does not power up or logic controller's display cycles on and off.	Power supply is not receiving input voltage.	Verify outlet receptacle installed in mainframe / cabinet is operating correctly and that the power supply is plugged in.
	Power supply is not producing 24VDC voltage, but is receiving AC.	Remove + lead from power supply output. If output voltage resumes, there is a short circuit in the wiring. If not, the power supply is faulty. Replace power supply.
	Short circuit in the wiring as determined in previous step.	Refer to pages 24-26 for wiring information.
	Loose wiring from power supply to logic controller.	
	Short circuit in the wiring.	
	Solenoid(s) burnt out (will occur if main AC voltage is connected directly to solenoid).	If wiring is correct, try to disconnect the solenoids from outputs 01 - 04. If system stops cycling, replace faulty solenoid.
	Solenoid tabs grounded out against control head casting after being reassembled from maintenance or reconfiguration.	Disassemble control head casting and flip solenoids so that the tabs with wires are facing away from the center of the control head casting.
Turnstile powers up but does not respond.	Solenoid (-) wire(s) not properly terminated.	Ensure solenoid negative wires are properly terminated to 24VDC- input and that the 3 wire splice (if equipped) is properly crimped.
	Improper wiring from access control to logic controller.	Ensure one leg of access control output relay is connected to 24VDC + and the other to the desired input.
	Access control device malfunction.	Disconnect access control from logic controller. Perform testing procedures on page 29. If the turnstile works properly, contact manufacturer of access control device.

6500 Series Control Head w/ XD10 Controller Troubleshooting

Symptoms	Causes	Solutions
More than one person can get through turnstile.	Access control device output connected to override inputs.	Wire access control to I1 or I2 with one-shot timer enabled.
	Access control device output set too long.	This can be avoided by enabling the one-shot timers built into the logic controller program. If this is undesirable, ensure the output from the access control system is one second or less.
	Loose wiring to the logic controller from limit switches.	Refer to pages 24-26 for wiring information.
	Limit switches are broken.	Inspect limit switches for breakage, replace as needed.
	Control head requires maintenance.	Refer to page 30 for more information.
	Limit switches are missing the triangular top cam.	Adjust the top cam to the proper height and/or tweak the triggers on the limit switch. Refer to page 27 for more information.
People are becoming trapped inside of the turnstile (Full Height models)	Rotor was installed backwards.	Refer to page 15 installation for visual diagram on how to install rotor properly.
Turnstile only rotates 30 degrees.	Limit switches wired incorrectly.	Refer to pages 24-26 for wiring information and page 27 for limit switch placement.
	Limit switch cam is misaligned.	The top cam should have one point facing the control board. If this is not the case, readjust the top cam. Refer to page 27 for top cam information.
Unit remains unlocked until access control is presented.	Fail open / fail lock configuration is wired incorrectly.	Refer to pages 24-26 for wiring information.
Turnstile is slamming into the closed position.	Shock either needs adjusted or replaced.	Refer to page 23 for more information.
Turnstile is not centering properly.	Shock needs adjusted.	
	Binding in control head.	Ensure mainframe is level and the rotor is plumb. Shim the unit from the floor if necessary.
Turnstile seems to be binding mechanically.	Rotor is not plumb / turnstile body is not level.	

6500 Series Control Head w/ XD10 Controller Troubleshooting

Symptoms	Causes	Solutions
Unit remains locked after access control is presented until arm is pulled in.	Mechanical bind between locking bar and cam assembly (typically from unit being out of plumb or not level)	Remove locking bar assembly from control head (easiest way on non-key lock models is to punch out dowel pin pivot point from bottom side of head casting) and file down tip of locking bar to give clearance.
Turnstile rotating the wrong direction.	Improperly filled out direction sheet.	In some cases, the control head can be reconfigured in the field to operate as needed. Refer to pages 18-20 for information about how the control head operates. If needed, control heads can be returned to the factory for reconfiguration for a fee of labor plus parts (if required). Please contact us before returning a control head in this instance.
	Directional inputs wired incorrectly.	Refer to wiring legend on page 26 for direction port explanations.
Turnstile fails lock when needed to fail open or vice versa.	Improperly filled out direction sheet.	Refer to page 20 for more information. Additional parts will be required to convert operation. The control head can be returned for reconfiguration for a fee of labor plus parts (if required). Please contact us before returning a control head in this instance.
Unable to hold direction open to allow multiple people to pass through the turnstile.	Override wired to incorrect inputs.	Ensure the access control device dedicated to overriding passage is wired to the override input instead of the standard input for that direction.
	One-shot timers are enabled (on regular access control input).	Disable the one-shot timer settings on the logic controller. Be sure that your access control output is one second or less during regular secure operation or extra people may be able to pass through. Refer to page 28.
Other problems.		Please contact us for any other issues.

Proper Turnstile Usage

The 6500 Series Control head is easy to use. There are a few things that users should be trained on and informed of.

- In the case of an electronic turnstile, approach the unit and present access control credentials. Do not push on the arms of the rotor until after the access control device successfully unlocks the turnstile. A sturdy click sound will be heard from the main channel when the solenoid pulls the locking bar open.
- Note that the turnstile will not unlock the rotor is being pushed on before access control activates the solenoid. The unit should unlock once pressure is released but it is a better practice to wait until the unit is unlocked before pushing on the rotor.
- Once access has been granted, proceed through the turnstile immediately. Waiting too long could cause the rotor to time out mid-rotation, forcing the user to back out of the turnstile. There are timer settings for adjusting how long it takes for this to occur. The default time provided is 7 seconds. The reason for this is in case somebody swipes and walks away without passing through.
- Walk at a reasonable pace through the turnstile. Do not slam the rotor through the rotation. This can be unsafe and may cause unnecessary wear and tear to the control head.
- Try to be respectful of users wanting to pass through the opposite direction. Allow people who are waiting an opportunity to pass through the turnstile.
- Avoid rotating the rotor of a full height without being in the passage. This will cause the rotor to re-lock before you have a chance to pass through the turnstile.
- Piggybacking : More than one user trying to squeeze through the turnstile on one rotation should be avoided. Large bags and carts should be brought through an alternate means of entrance.

Warranty Information



Seller warrants the goods against defective workmanship and materials provided that Buyer notify Seller within one (1) year after receipt by Buyer of the goods of any claim under this Warranty. The liability of Seller shall be limited to replacing or repairing defective goods returned by Buyer and delivered to the factory of the Seller, transportation charges prepaid.

Replaced or repaired goods will be redelivered freight prepaid to the address of Buyer shown hereon. Except for the Warranty contained herein, there shall be no other warranties, such as warranties of fitness and merchantability or otherwise express or implied, written or verbal, and Seller shall not be liable for consequential damages in any event.