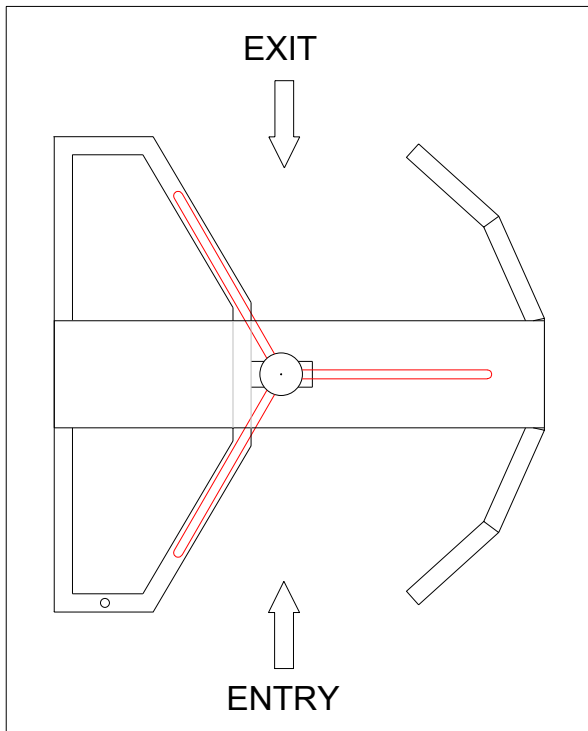
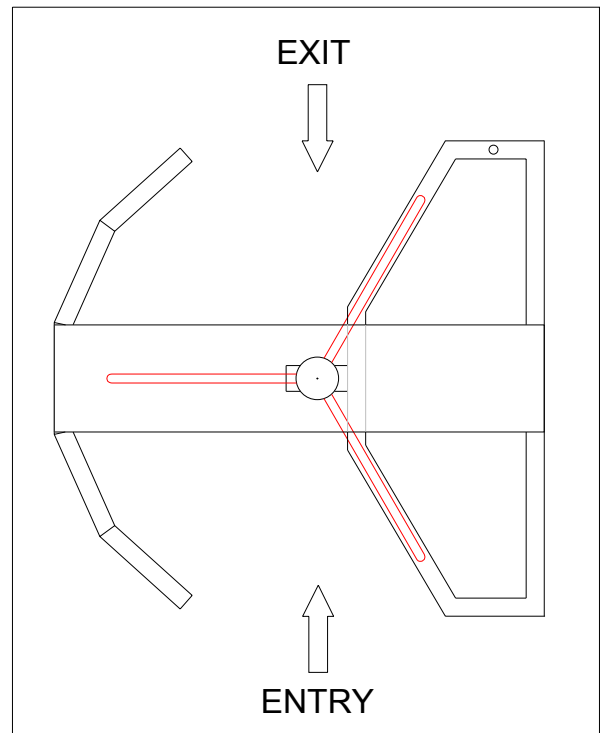


SENTINEL TURNSTILE

3 ARM FULL HEIGHT



**STANDARD
TURNSTILE**



**NON-STANDARD
TURNSTILE**

ALL TURNSTILES HAVE LOCKED ENTRY, LOCKED EXIT WITH POWER ON
AND FREE EXIT ON POWER FAILURE.

OPERATION.

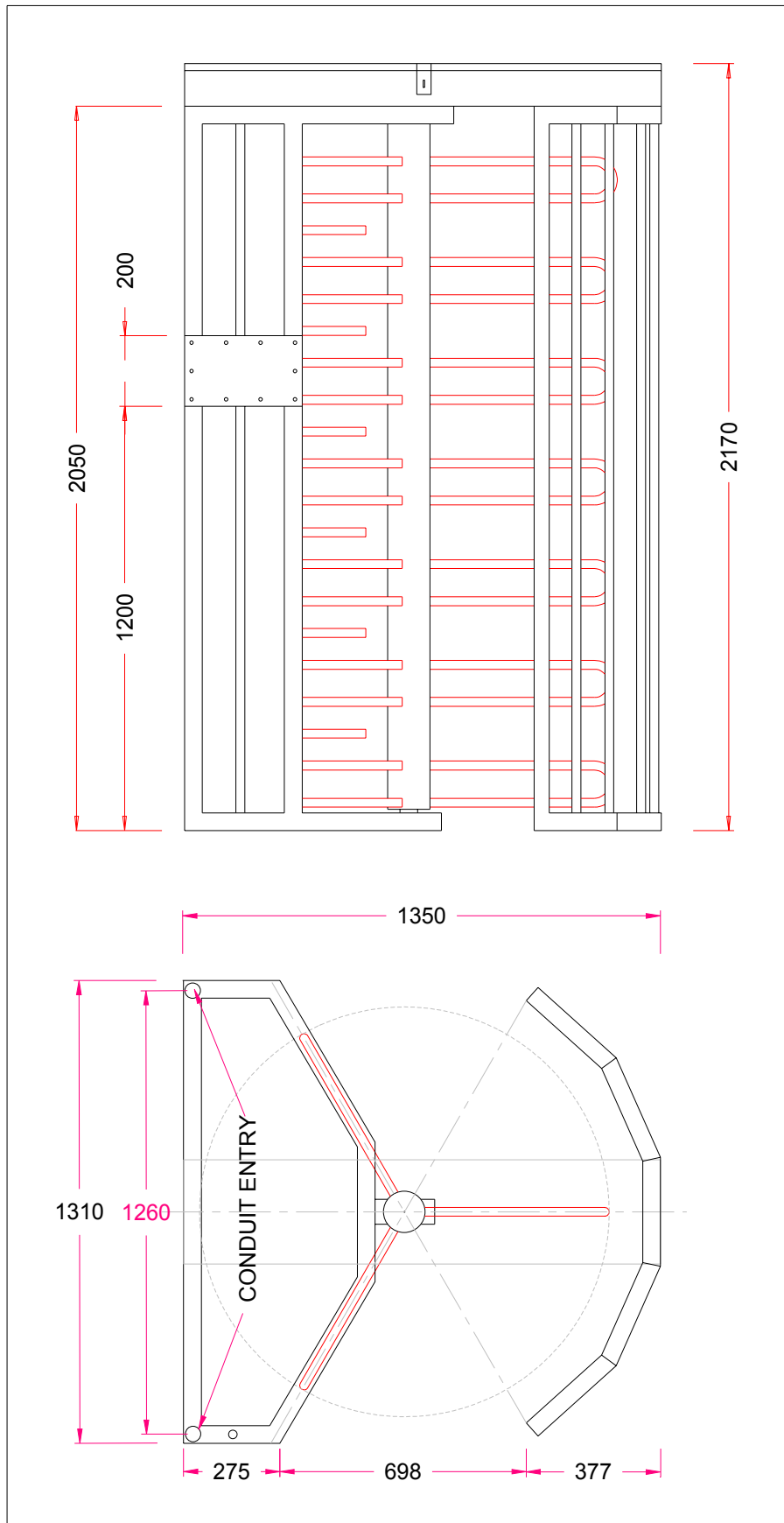
The controller is triggered by a momentarily closed voltage-free contact of + / - for 0.5 seconds. The solenoid unlocks the pawl to allow the rotor to rotate through 120°. Once past the 60° position the rotor can not be reversed to allow the person to back out.

When the rotor has passed the 60° position the limit switch cam cancels the timer controlling the locking pawl and the turnstile locks itself.

If a person does not proceed through the turnstile the timer will time out and lock the turnstile after a preset time.

NOTE : CONCRETE PAD SHOULD BE 20MPa (min) 150 MM THICK (MIN) CURED FOR 7 DAYS ON A SUITABLE COMPACTED FOUNDATION.

HOLD DOWN ANCHORS (6) TO BE 10MM DIA X 75MM INTO THE CONCRETE. (MIN)



STANDARD TURNSTILE

INSTALLATION INSTRUCTIONS

- Remove packaging, cable ties and disassemble.
- Open the header box and remove transformer, top and bottom flanges and other loose components.
- Unbolt header box from the rotor support frame.
- Place rotor support frame into final position.
- Position lower rotor flange onto rotor support frame spigot.
- Assemble rotor arms on the lower flange, starting with the longest spigot first.
- Assemble top rotor flange onto the arms and bolt into position.
- Fit “L” shape brackets mid way up the rotor arms and bolt into position.
- Locate side frame into position as per drawing.
- Apply a small amount of rubber grease to the rubbers and lower the header box onto the top flange of the spindle arms and secure header box to both frames with bolts supplied.
- Check final position, plumb using packers if necessary and secure to the concrete pad by the mounting lugs provided with appropriate fixings. e.g. Loxins, Dynabolts.
- Fit card reader mounting plates. The reader mounting system is designed to accommodate most readers available with the entry cables via the back of the reader. There is sufficient space behind the polypropylene cover to accommodate various connection plugs etc. The cables can be fed to the header box via the holes provided in the frame within the card reader mounting box.

WARNING

MAINS POWER SUPPLY INSTALLATION MUST BE CARRIED OUT BY A QUALIFIED ELECTRICAL CONTRACTOR.

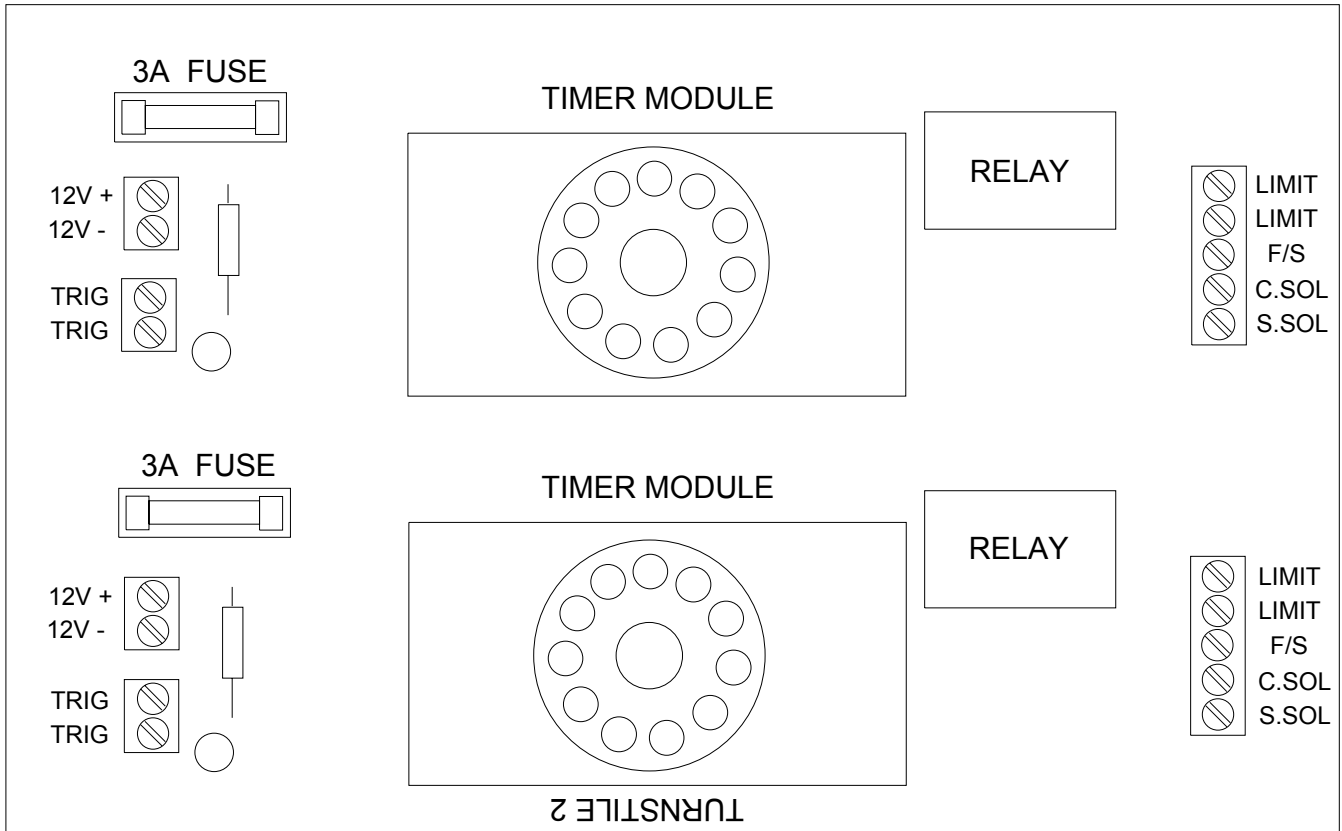
- Fit low voltage wiring from the transformer to the control board at + & - .
It is preferable to install the transformer remotely from the turnstile so that only AC low voltage is fed to the turnstile. The power control cables to the turnstile may be fed overhead, directly into the header box, or alternatively from below in conduits protruding from the slab and entering through the hollow members of the framework. Holes are provided at various points to assist the installing of cables to enter the header box. Plugs are provided to seal these holes when the cabling is completed.

IMPORTANT!!!

DO NOT LEAVE THE KEY IN THE DISINGAGE POSITION FOR LONG PERIODS WHEN THE POWER IS CONNECTED, THIS WILL CAUSE THE SOLENOIDS TO BURN OUT.

SPECIFICATIONS

Solenoid	- 12vdc
Controller	- Plug in timer powering a solenoid for 3 to 5 seconds.
Consumed Power	- 15 watts max.
Supply	- 12vdc
Self locking time out	- 3 to 15 seconds adjustable.
Trigger Pulse	- not less than 0.25 sec. - not greater than 2.0 sec. - voltage free N/O contacts.



TO CHANGE THE TURNSTILE FROM STANDARD TO NON-STANDARD

The solenoids have different springs and fittings, swap the complete solenoids and fit the **ENTRY** solenoid wires into **C.SOL and S.SOL** on the same side of the printed circuit board as the entry solenoid. Fit the **EXIT** solenoid wires into F/S and C.SOL on the same side of the printed circuit board as the exit solenoid.

Swap the wiring on the limit switches from one side of the printed circuit board to the other (marked limit), not the limit switches themselves. The **timer modules** are the same for entry and exit so they **do not have to be changed**. The key lock and the blanking plate will have to be swapped also.

This will only change the entry and exit positions of the turnstile but the operation will be the same. LOCKED ENTRY, LOCKED EXIT, FREE EXIT ON POWER FAILURE.

SERVICE INSTRUCTIONS

Sentinel turnstiles are designed for a minimum of maintenance during their service life. The header box lids are fitted with rubber seals to ensure a dust free interior.

NOTE: THESE LIDS MUST BE SECURED AT ALL TIMES AND NOT LEFT OPEN

1. SOLENOIDS:

These have hard chromed armatures running in PTFE bushes and are designed to operate dry. **DO NOT GREASE OR OIL** as this could accumulate dust to form a gritty paste that will damage the surface on the armature.

The master links between the solenoids and the pawl require a light grease on the shafts when doing the locking roller servicing every 2 years.

2. LOCKING PAWLS AND LOCKING ROLLERS:

These need to be cleaned and greased approximately every 2 years, depending on the traffic flow through the turnstile. See procedure below for removing the top plate to expose the pawls and allow the locking rollers and pins to be removed for cleaning, inspection and re-greasing.

3. HEAD:

The locking drum is supported by two sealed ball bearings that do not need any servicing. However, the CENTRALISING DEVICE situated between the top of the locking drum and the top plate, operates on 3 ROLLERS which need to be maintained by cleaning and re-greasing at intervals of approximately 12 months, depending on the traffic flow through the turnstile.

4. CLEANING

- Remove the rotary cams fitted on the top of the main shaft protruding through the top plate. Note and mark the position of the cams relative to the switches. (The switches do not necessarily need to be removed.)
- Remove the 3 nuts holding the top plate down.
- Lift the top plate off and the centralising rollers will be exposed.
- Lift the roller pins out with the rollers, wash and inspect for wear. Re-lubricate with high pressure grease and refit.
- Clean the pivot brushes on the constraining levers, re-grease and refit. Apply grease to the lever surface where roller runs and the outer surface of the roller.
- When placing the top plate, ensure the spindle is in the standard position. Splay the lever/s by hand and press the top plate home.
- Re-fit and tighten 3 hold-down bolts.
- Re-fit cams to main shaft.

The operation usually takes about 1 hour, depending on the assess ability of the headerbox on the turnstile.