

digicon

TXLITE digicon



1 Maintenance

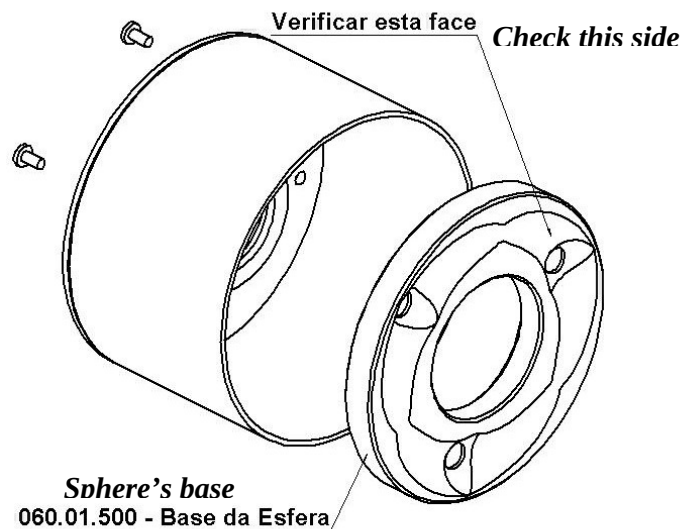
1.1 Preventive Maintenance Routine

Sphere's base – Periodicity: each 700,000 cycles

Necessary to check wear out of sphere trail

Corrective Actions:

1. In case happens excessive wear out (chips, drilling, rasping or canals where the spheres rolls) replace the part.



2. In case the part doesn't appear wear out, clean and grease it using the same grease used for roller balls.

Optic sensors – Periodicity: At least once per year (subject to environmental conditions)

This maintenance routine demands the use of a multimeter. To verify the needs of corrective actions, has to be done measures on CN6 with a powerfully controller, accordingly with instructions below:

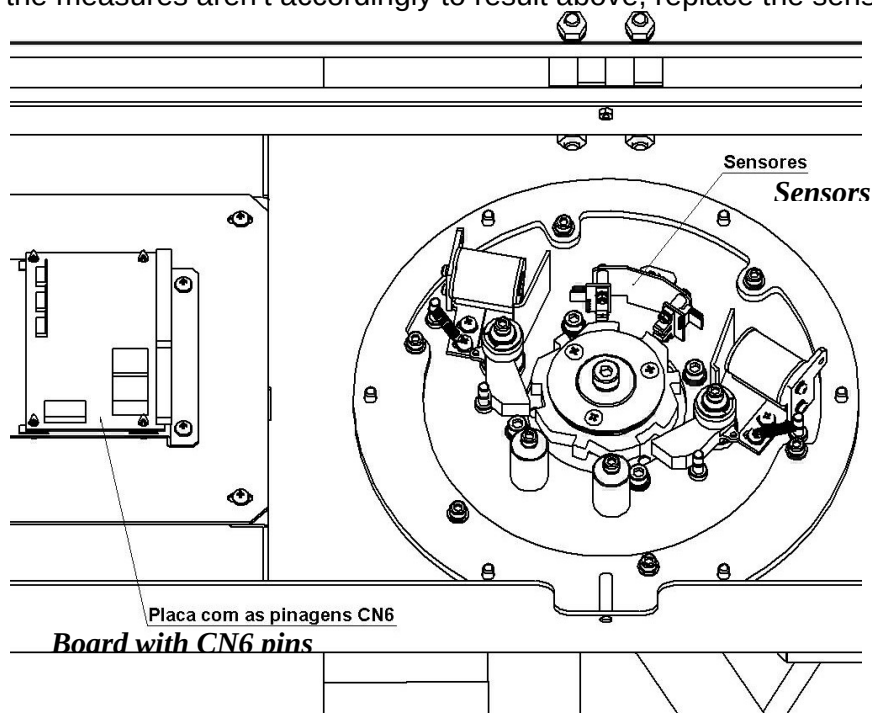
- On the multimeter, select the DC measure until 20V then put the black pointer on pin # 4 and the red pointer on pin # 1 of CN6. Registered tension must be lower than 0.8 V (sensors not obstructed). With the pointers on same position, turn the equipment arms to both sides (at one side, measure should be higher than 4.5 V)
- Repeat the last operation putting the black pointer on pin # 4 and the red pointer on pin # 3 of CN6. The results should be the same as those got with pins #s 4 and 1.
- Check if the sensor shows any sign of dust.

Note

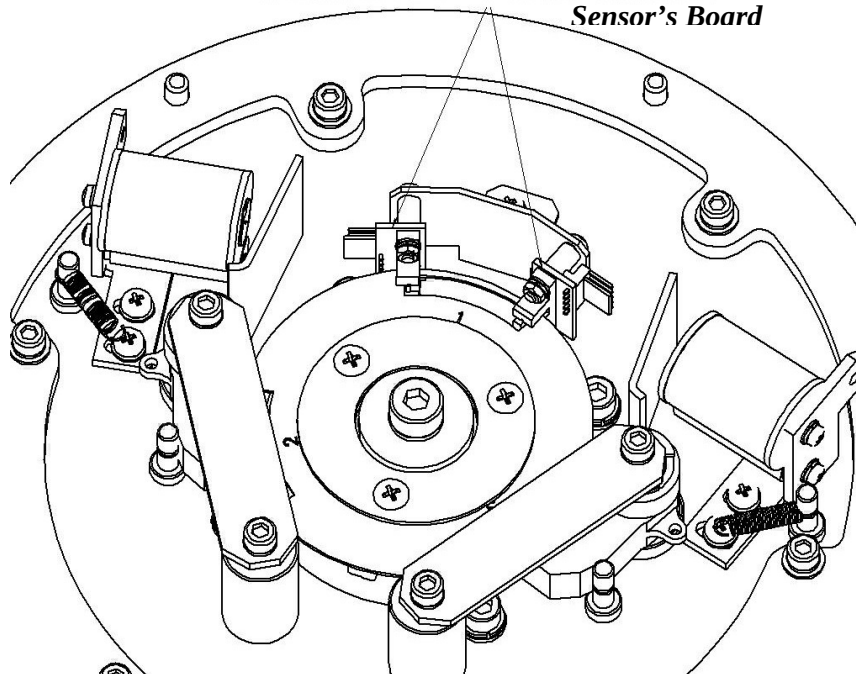
For these tests, the plastic disc cannot be daily exposed to sunshine, once it can trespass the plastic and may jeopardize the test.

Corrective Actions:

1. If the measures aren't accordingly to result above, replace the sensor.



019.01.171 - Placa Sensor
Sensor's Board



2. Clean the sensors using a clean brush

Note

In case the environment presents exceed dust, execute this maintenance routine more frequently

Electromagnetic – Periodicity: each 700,000 cycles

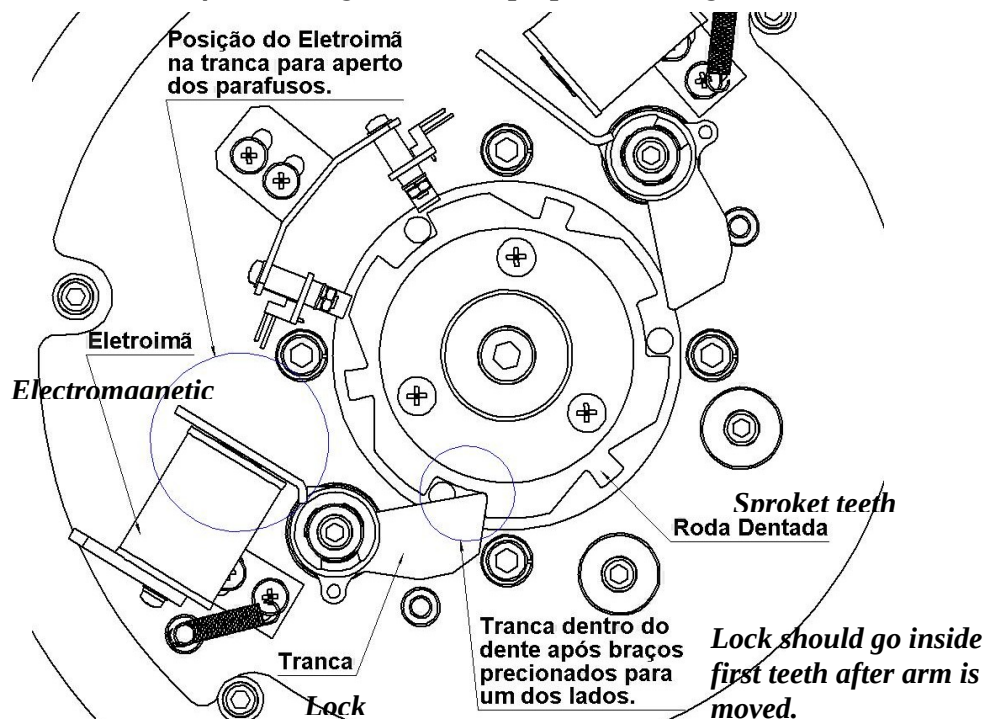
This maintenance routine demands the use of a multimeter. To verify the needs of a corrective action, must unplug the CN3 from access controller's board and check the electromagnetic resistance. It should bring around of 12.5 and 13.5 ohms between pins #s 1 and 2 and between pins # 3 and 4 of electromagnetic connector. After this measure, CN3 must be plugged on board.

Corrective Actions:

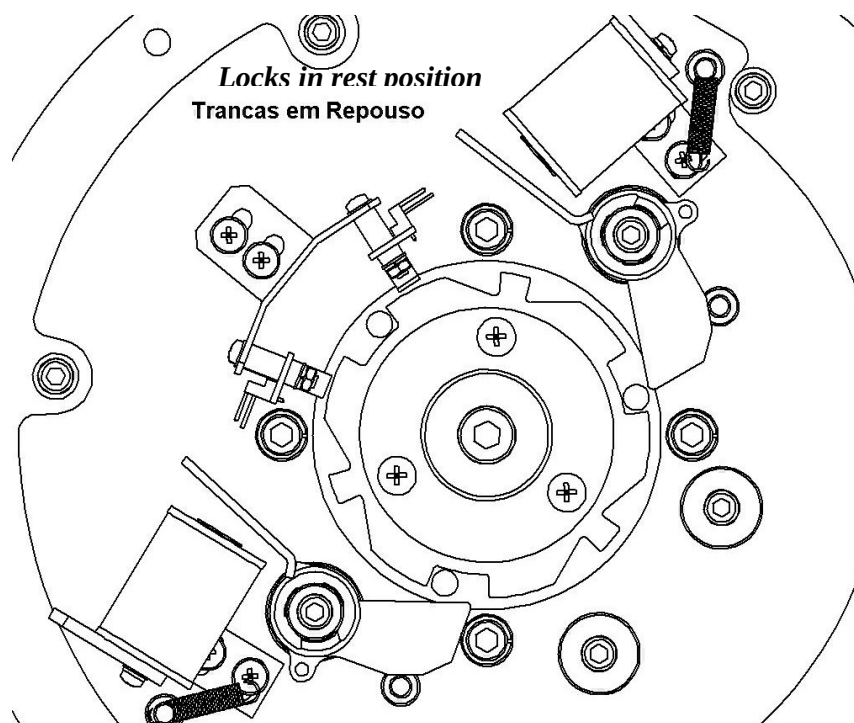
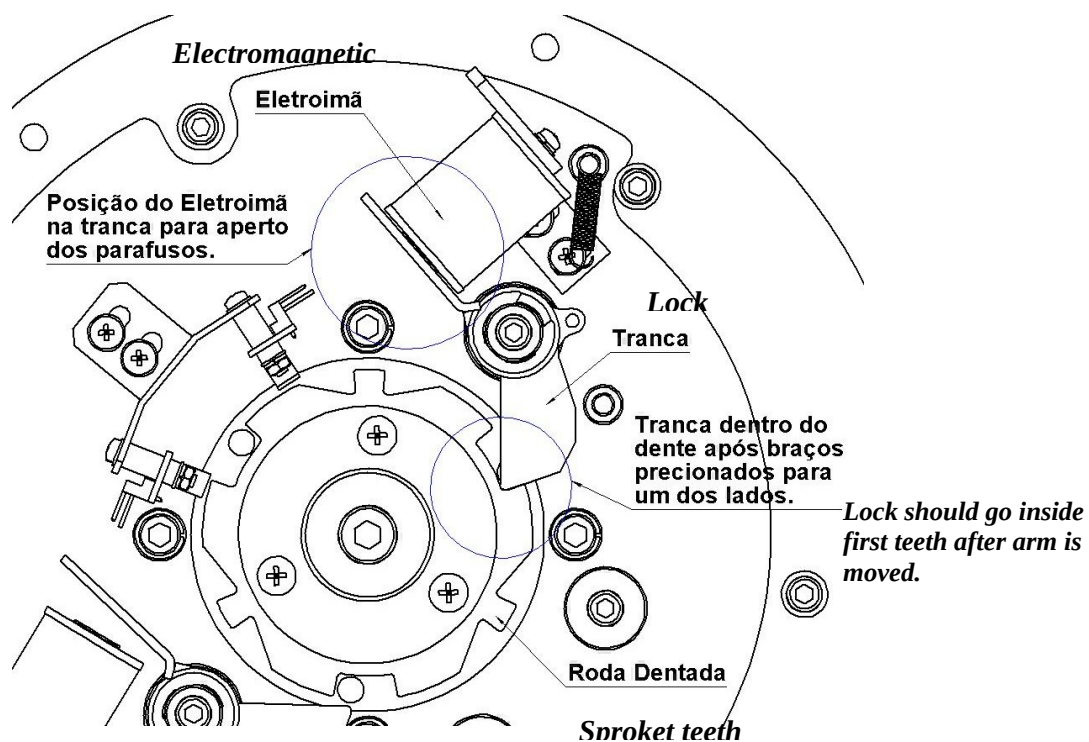
1. In case an incorrect resistance or short circuit is noted, replace the electromagnetic as well as in case it is physically damaged.
2. If the electromagnetics aren't properly working, check the board and electric tension.
3. If the electromagnetic is loose, tight base's screws.

Electromagnetic adjustments (if necessary):

1. Force the lock against the sprocket teeth and the equipment arm; until it is fully inside the first teeth (until the arm locks).
2. Then, release the screws and press the electromagnetic against lock's flap, in order to have it full leaning to electromagnetic.
3. Tight again the screws. See picture below:

Position of electromagnetic on the proper lock to tight the screws

The lock flap should be positioned as picture when fixing the screws.

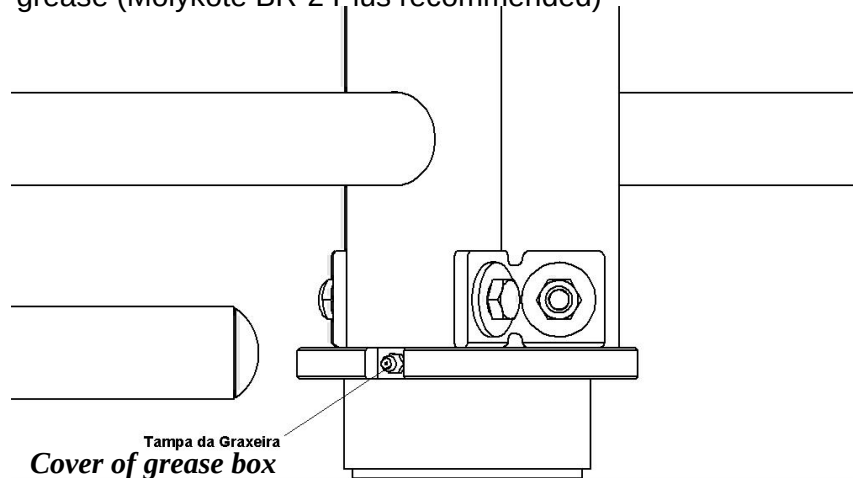


Arms Roller balls – Periodicity: each 6 months

This maintenance routine refers to lubrication of central arm's roller balls on the full height turnstile. This central arm's cannot become heavy for users.

Preventive Actions:

1. Open the grease box placed on base of central arm's and fill it with grease (Molykote BR-2 Plus recommended)



1.2 Possible causes of malfunctions

Malfunction	Possible cause	Action
Full Height Turnstile doesn't turn on	• Unplugged power cable • Power supply's fuse be burnt	• Check cables and fuses (fuse 3 A)
Full Height Turnstile is locked	• Optic sensors are blocked or damaged	• Do the preventive maintenance routine on sensors or contact indicated technical support
Full Height Turnstile doesn't trigger the electromagnetic	• The cable is break up or distance between electromagnetic and lock device are misfit	• Do the maintenance routine to adjust electromagnetics o contact indicated technical support
Arms doesn't stand on correct position	• Wear out, dust, broken spring or a lower level of grease on sphere's base	• Request to replace damaged part or contact indicated technical support
Full Height Turnstile doesn't lock on first teeth	• Distance between electromagnetic and lock device are misfit	• Do the maintenance routine to adjust electromagnetics or contact indicated technical support
Full Height Turnstile is too heavy to turn	• Grease on central arms roller balls aren't on proper level	• Do the maintenance routine to lubricate roller balls

1.3 Replacement parts list

Codes	Description
019.01.171	Sensor Board
019.01.334	Power supply +5V+12V CP1290
019.01.386	CP1298 Controller Board
057.050	Lock's traction spring
097.01.001	Conical Roller balls 32008 x 3CD
060.01.500	Sphere's Base
060.23.028	Finishing Cover
060.91.002	Plastic Disc
070.10.981	Left lock set
070.10.990	Right lock set
080.01.519	Right electromagnetic set
080.01.520	Left electromagnetic set