

ICX Active-9 Intelligent Coin Processing Technical Handbook Spare Parts List

5004705-101 Rev 03





SUZOHAPP

EMA Headquarters

Antonie van Leeuwenhoekstraat 9 3261LT Oud-Bijerland The Netherlands P +31 (0) 186 643333 F +31 (0) 186 643322 info.nl@suzohapp.com

NCS Headquarters

1743 Linneman Rd Mount Prospect IL 60056 USA P +1 (847) 593 6130 F +1 (800) 593 4277 info@suzohapp.com

APA Headquarters

44-48 Rocco Drive, Scoresby Victoria Australia 3179 P +61 3 9757 5000 F +61 3 9763 7265 info@suzohapp.com.au

For more information:

SCAN COIN AB

Nordenskiöldsgatan 24 SE-211 19 Malmö, Sweden P +46 (0) 40 600 06 00 info@scancoin.se

Contents

1	Gen	eral Information 1
	1.1	Declaration of Conformity 1
	1.2	Environmental Compliance 1
	1.3	Responsibility 2
	1.4	Included Parts 2
	1.5	Abbreviations/Acronyms 2
	1.6	Related Documents 3
2	Safe	ety Precautions
	2.1	Hazard Notices 4
	2.2	Service and Maintenance 4
	2.3	Operation
3	Intr	oduction
	3.1	Machine Part Terminology
	3.2	Bag Full Indication
	3.3	HMI USB Connectors 10
4	Тес	hnical Data 11
	4.1	Physical
	4.2	Dimensions
	4.3	Environmental
	4.4	Functional 13
5	Op e	rator Interface
	5.1	Screen
6	Con	sumables and Accessories
7	Ren	noval and Assembly 16
	7.1	Overview
	7.2	Conveyor
	7.3	Conveyor - Removal
	7.4	Conveyor Belt 24
	7.5	Conveyor Motor
	7.6	Upper Deck - Overview 26
		>>>

	>	>>>
	7.7	Upper Deck - Removal
	7.8	Main Motor and Drive Belt 29
	7.9	Solenoid 31
	7.10	Deflector
	7.11	Dangler Spring, Coin Chamber 34
	7.12	Coin knife 35
	7.13	Inner wall
	7.14	Roller Assembly Upper Deck 38
	7.15	Lower Deck and Sensor Unit 42
	7.16	Electrical Box
	7.17	Cutting Board 45
	7.18	Manual Override Switch 45
	7.19	Bag Lights 46
	7.20	Top Lid
	7.21	Outlet Hood
8	Spar	e Parts List
	8.1	Upper Deck
	8.2	Lower Deck and Sensor Assembly 51
	8.3	Miscellaneous
9	Tool	list

Appendix Al

А	ChecklistII

1 General Information

SUZOHAPP reserves the right to revise and improve its products as it sees fit. This publication describes the product at the time of publication and may not reflect the product in the future.

This publication, or parts thereof, may not be reproduced in any form whatsoever other than the purchaser's personal use without the express permission of SUZOHAPP.

1.1 Declaration of Conformity

We declare under our sole responsibility that the product in this manual is in conformity with the following standards or other normative documents:

- EN 60 950-1: 2006
- EN 60 950-1: 2006 / A11:2009
- EN 60 950-1: 2006 / A12:2011
- EN 61 000-6-1: 2007
- EN 61 000-6-3: 2007

following the provisions of:

- Low Voltage Directive 2006/95/EC
- EMC Directive 2004/108/EC

1.2 Environmental Compliance



WEEE Directive

Waste Electrical and Electronic Equipment Directive 2012/19/EU.

Equipment marked with this symbol must be treated separately and in accordance with any local legislation requiring proper treatment, recovery and recycling of used electrical and electronic equipment.

Note! If the equipment contains batteries or accumulators, dispose of those items separately according to local requirements.

RoHS 2

RoHS 2 Restriction of Hazardous Substance Directive 2011/65/EU.

Contact your SUZOHAPP representative for further details.

1.3 Responsibility

The supplier of the equipment accepts no responsibility for injury or damage to personnel or equipment if the equipment is altered in any way or used in a manner for which it was not intended at the time of delivery.

If the conditions for use of the equipment are changed, the supplier must be contacted or the declaration of conformity is invalidated.

1.4 Included Parts

Pos.	Part No.	Description	Spare Part No.	Remark
1	XXXXXX-XXX	Article A	XXXXXX-XXX	
2	XXXXXX-XXX	Article B	XXXXXX-XXX	
3	XXXXXX-XXX	Article C	XXXXXX-XXX	
4	XXXXXX-XXX	Article D	XXXXXX-XXX	
5	XXXXXX-XXX	Article E	XXXXXX-XXX	

• • Article C is included in Article B

When ordering part "Article A", parts B and C are shipped as well.

1.5 Abbreviations/Acronyms

Acronym	Description
AC	Alternating Current
CPU	Central Processing Unit
DC	Direct Current
ESD	Electrostatic Discharge
HMI	Human Machine Interface
PSU	Power Supply Unit
PCB	Printed Circuit Board
SC	SCAN COIN

1.6 Related Documents

Document	Document number (main number)
User's Guide	050137-000
Technical Handbook and Spare Parts List	This document
Checklist	

2 Safety Precautions

2.1 Hazard Notices

This manual contains hazard information which must be regarded by all users.

The hazard information is presented as a warning or a caution as follows:



WARNING!

Risk of personal injury! Warnings indicate a potential hazard to the health and safety of users. They clearly state the nature of the hazard and how to avoid it. The warning symbols appear at their points of application in this handbook, but with different illustrations.

- Caution! Cautions indicate a potential hazard to the physical integrity of the machine, but not a danger to personnel. They clearly state the nature of the hazard and how to avoid it. They appear at their points of application in this handbook.
 - **Note!** The servicing information and instructions contained in this installation manual are for use by qualified personnel only. Any unauthorized attempt to install the equipment will nullify the warranty.

2.2 Service and Maintenance

Electrostatic discharge (ESD)



WARNING! Risk of electric shock

High voltage inside the machine may be fatal for anyone in contact with it. Always switch OFF and disconnect the machine from mains supply before disassembling.

Caution! Electrostatic discharge (ESD) may damage the electronic components. All electronic circuit boards in the machine are sensitive to ESD.

To prevent damage from ESD, **always** observe the following precautions:

- Always wear a suitably grounded wrist wrap make it first on, last off.
- An unboxed or unbagged board is an unprotected board
- Keep non-conducting materials (sleeves, ties, scarves and so on) away from electrostatic safe work areas.



WARNING!

Risk of electric shock!

Potentially lethal voltages exist inside this machine when it is connected to the mains electrical supply. Whenever possible, disconnect the mains supply lead from the rear of the machine before opening the covers.



WARNING!

Risk of electric shock!

A potential shock hazard exists if the earth connections are not secured properly. Always ensure that the earth connections are properly attached after any adjustments have been made. Earth connections are identified by green/yellow-sheathed wires or braided straps.

Pay attention to all instructions and warning signs given on the machine.

Before carrying out cleaning and maintenance work, always set the mains switch to off and unplug the power cable from the mains.

Ensure that the power cable cannot be damaged, crushed or stepped on.

Caution! Do not use solvent-based cleaning agents (for example common household cleaning liquids) on any parts of the machine. These may affect the functions of the sensor or other parts of the machine.



WARNING!

Risk of electric shock!

The socket outlet shall be installed near the equipment and shall be easily accessible.



WARNING!

Risk of tipping!

150 kg safe working load. Do not move the machine with coin bags attached. The stability is affected by the weight of the coins.

2.3 Operation

Read all safety notes and operating instructions before operating the machine.



WARNING! Risk of jamming!

Avoid wearing loose or baggy clothing (for example ties) when working at the machine. When the cover is open the clothing can be caught by the coin disc or transport mechanism and pulled into the machine.



WARNING!

Risk of electric shock!

Take care that no objects fall into openings in the machine casing. These may come in contact with live parts and cause electric shock.

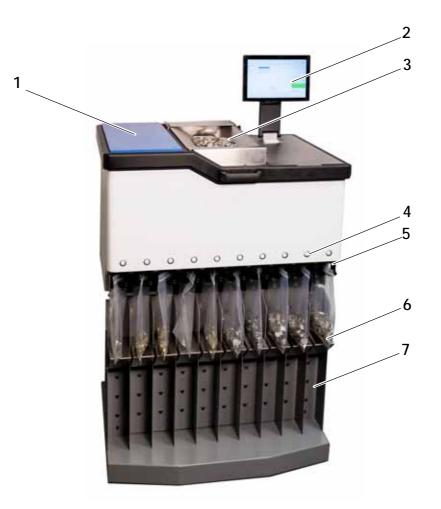
Caution! Take care that no objects fall into openings in the machine casing. These may come in contact with live parts and cause short circuits or fire.

3 Introduction

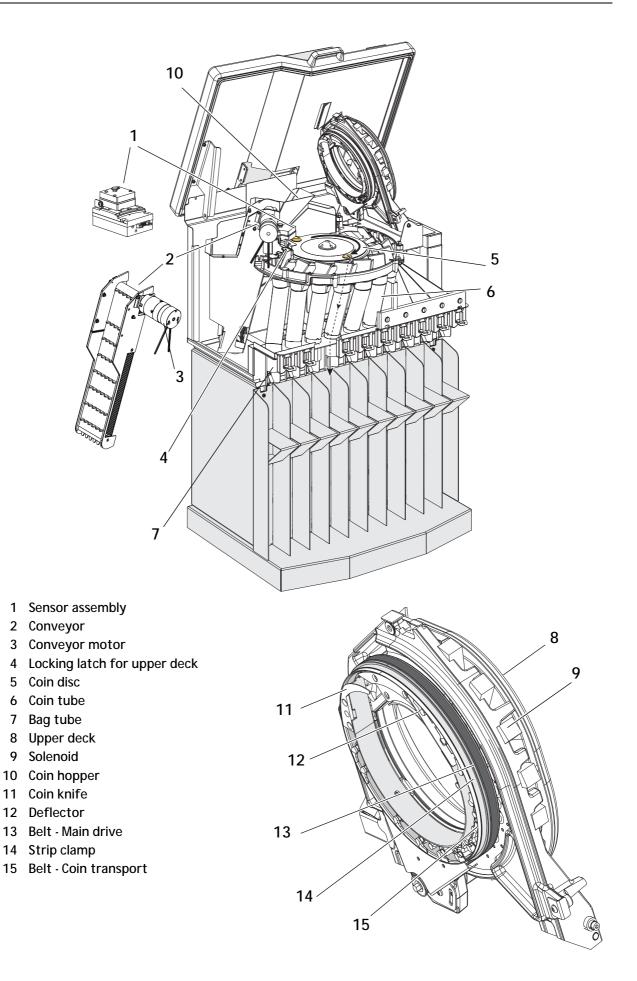
The technical handbook is valid for SC ICX Active-9. It provides information required by qualified personnel to carry out repairs, maintenance and service.

3.1 Machine Part Terminology

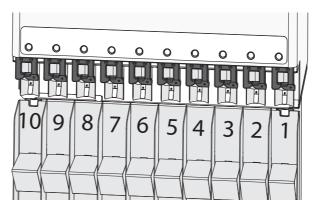
Front



- 1 Top lid
- 2 Touch screen
- 3 Coin tray
- 4 Bag buttons
- 5 Bag retaining clamp
- 6 Bag shelves
- 7 Stand

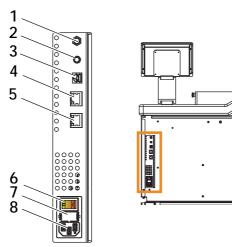


Outlet Scheme

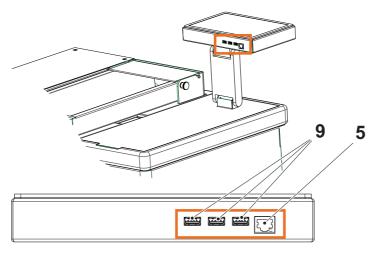


The coin outlets are numbered from 10-1 from left to right

Connections



- 1 2x isolated inputs
- 2 2x isolated outputs
- 3 USB B for Service programming
- 4 RJ45 Ethernet connection for machine networking.
- 5 RJ45 Ethernet with Power Over Ethernet for user interface ONLY
- 6 Mains switch
- 7 Two pole fuse holder
- 8 Mains inlet
- 9 USB A for printer, PC, keyboard, scanner etc.



3.2 Bag Full Indication

There is one illuminating push button (IPB) above each coin outlet. The lamp in the push button illuminates when the corresponding bag is full and extinguishes when the button is pressed.

3.3 HMI USB Connectors

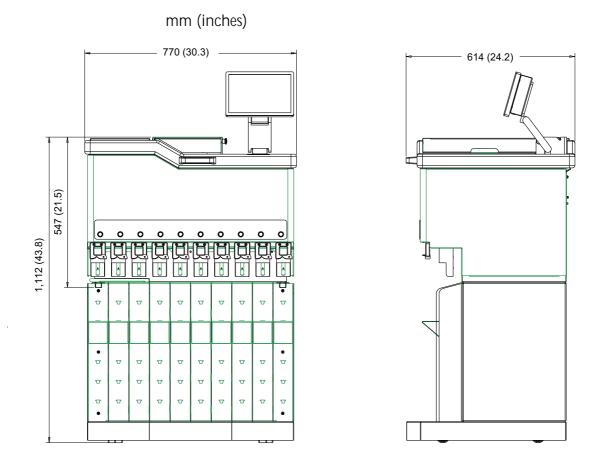
USB sticks can be inserted to store count data and set-ups and to load software.

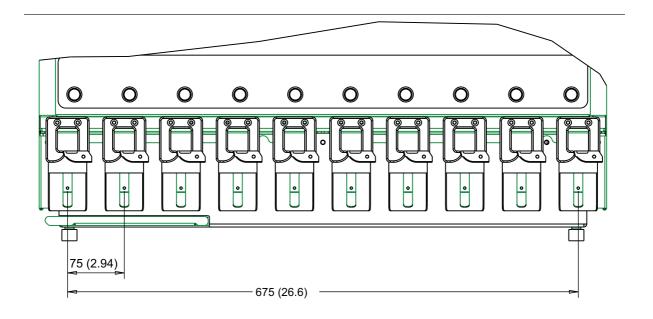
4 Technical Data

4.1 Physical

Description	Value
Weight, machine without stand	87 kg (191 lb)
Weight, stand	40 kg (88 lb)

4.2 Dimensions





4.3 Environmental

Description	Value
Operating temperature	10–30°C (50–86°F)
Operating humidity	30–80% (non-condensing)
Noise level	89 dB (A)

Power requirements

Description	European ratings	US ratings
Supply voltage	220-240 V +/- 10%	100–120 V +/- 10%
Current	1.4–1.6 A	2.7–3.5 A
Frequency	50 Hz +/- 3 Hz	60 Hz+/- 3 Hz

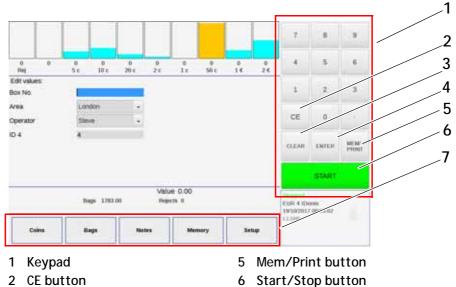
4.4 Functional

Description	Value
Counting rate (maximum)	2,700 coins/min
Coin diameter range	15.0-32.0 mm (0.59–1.26")
Coin thickness range	0.9-3.5 mm (0.04–0.14")
Data entry	via on-screen numeric keypad, external keyboard may be used
Display	10" touch screen

5 Operator Interface

5.1 Screen

The touchscreen shows the keypad to the right, as well as one or more softkeys at the bottom of the screen. Bags, bag names and full bag quantities as well as transaction total, number of rejects, current status and current set-up are also displayed.



2 CE button 3 Clear button

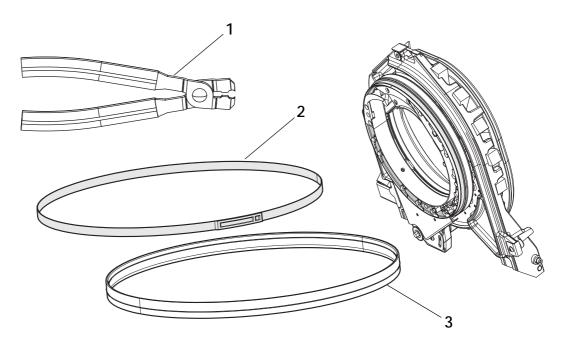


4 Enter button

Button	Description
CE key	Clears the data entry highlighted.
Clear	Clears all data counts or clears the last character in a data entry.
Enter	Confirms an input or a selection.
Mem/Print	Saves the total to memory and obtains a printout.
Softkeys	Control the machine. Their functions are determined by the context and shown in the lower part of the screen.

6 Consumables and Accessories

Pos.	Part No.	Description	Remark
1	018169-000	Clamp tool	Accessory
2	310188-002	Strip clamp	Consumable
3	018350-000	Belt	Consumable
-	5005045-000	Kit (Coin belt 5 pcs. + Strip clamp)	Consumable
-	5005044-000	Roller setting tool	Accessory
-	031544-100	Calibration set (including "F" coin)	Accessory



7 Removal and Assembly

This chapter contains the exploded views and the instructions for removal and installation of the field exchangeable components.

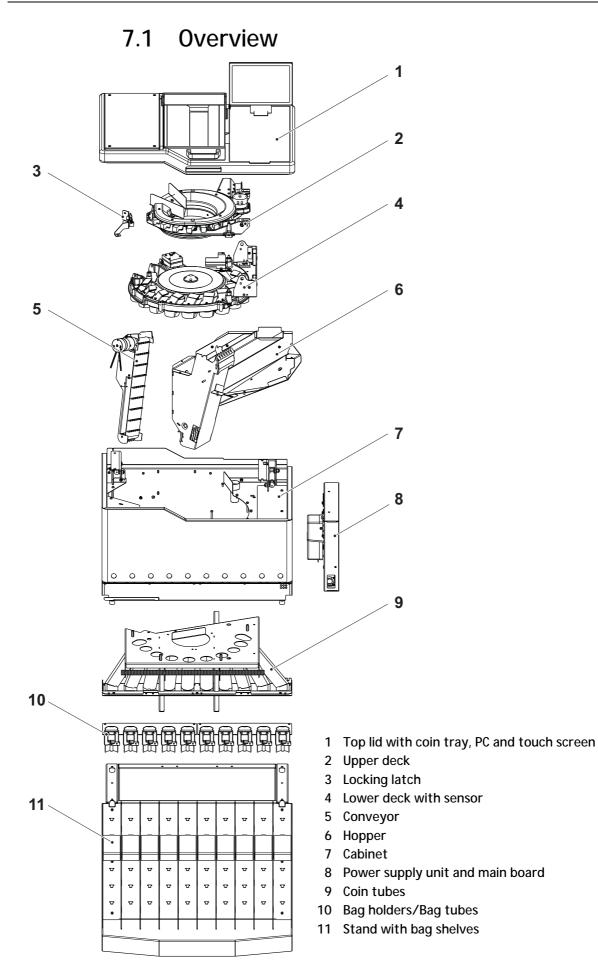


WARNING! Risk of electric shock!

Make sure that the machine is not connected to the power supply while you are working on it.

Note! Assembly is the reverse of removal, if not stated otherwise.

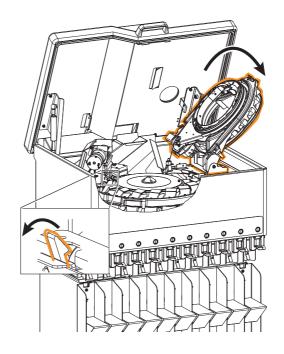
Tip: To avoid problems with lost nuts, screws, shims etc. ending up in the machine, put a cloth in the coin tray.

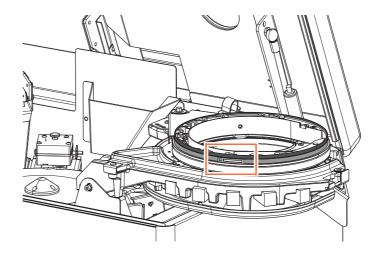


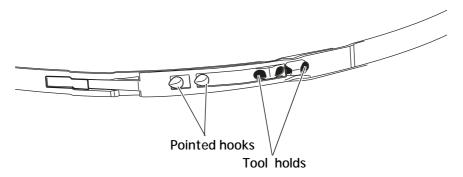
Coin rubber strip

Equipment required Clamp tool 018169-000

a) Release the locking latch and open the upper deck, 180°.

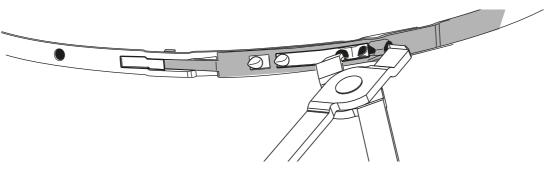




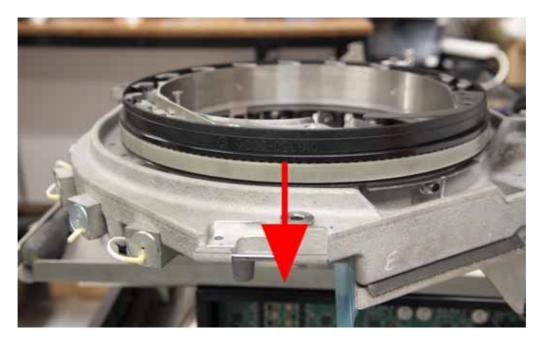


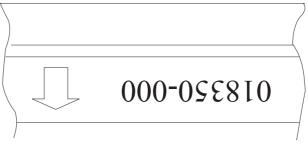
>>>

b) Put the clamp tool on the tool holds of the strip clamp and press together to unhook the clamp. The strip clamp will lock in a slackened position.



- c) Pull the strip clamp up towards lid. The tool can be used for this purpose as well.
- d) Replace the coin rubber strip.
- **Note!** To position the coin rubber strip correctly make sure that the arrow is pointing towards the upper deck. With the upper deck open 180° as shown below.

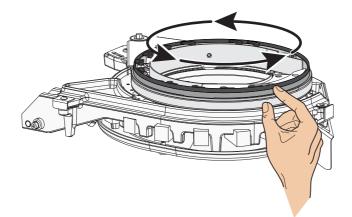


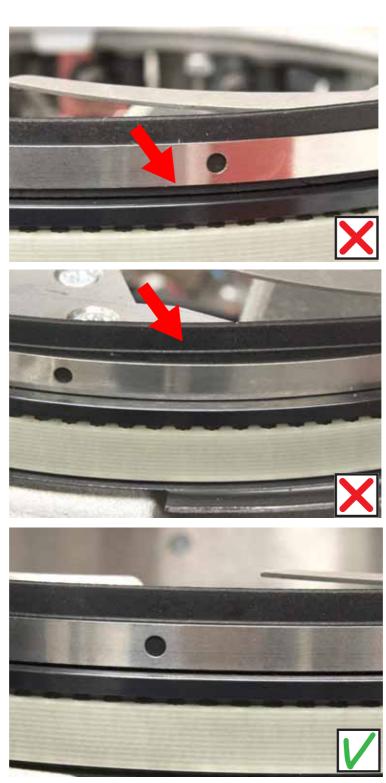


>>>

>>>

- e) Place the strip clamp around the coin rubber strip in the machine. To avoid crinkles on the rubber strip, apply a small amount of Hellerine fluid lubricant or similar around inside face of the strip clamp.
- f) Check that the rubber strip and the clamp are down all around, see <u>"Rubber strip" on page 21</u>.
- g) Fasten the strip clamp using the two pointed hooks.
- h) Rotate the ring and check that the coin rubber strip is in contact with the edge of the ring in all positions.
- i) Remove any excess lubricant from the strip clamp.



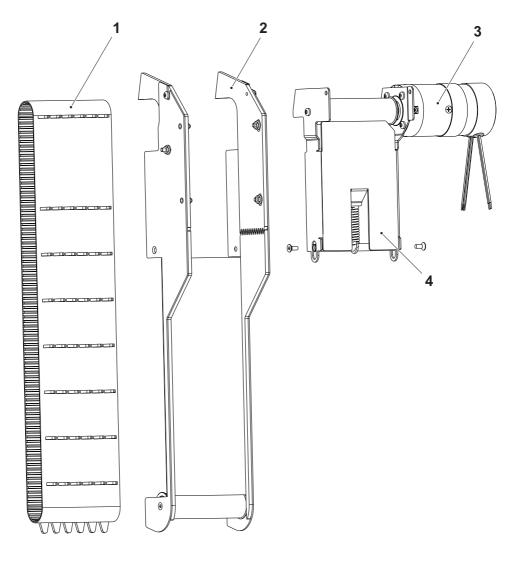


Rubber strip

- j) Close the upper deck and the top lid.
- k) Reset the coin counter from the screen, see the Setup/Belt menu.

7.2 Conveyor

The conveyor consists of the following parts:

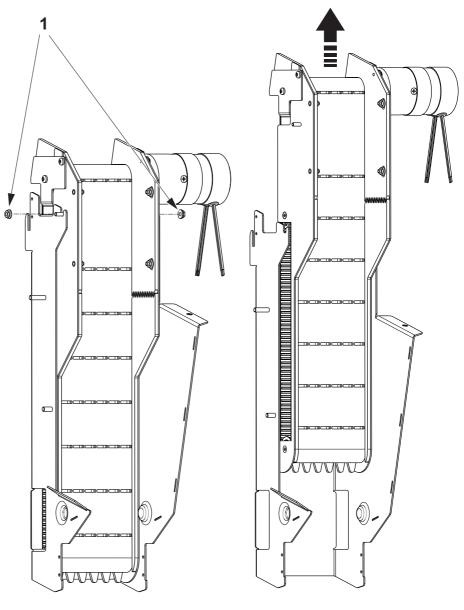


- 1 Conveyor belt
- 2 Conveyor bracket
- 3 Conveyor motor
- 4 Conveyor belt tensioner

7.3 Conveyor - Removal

Equipment required Spanner 7 mm

- a) Disconnect the electric supply.
- b) Using the spanner, loosen the two nuts (1) at each side of the upper part of the conveyor.
- c) Unhook the conveyor from the bracket and lift it out.

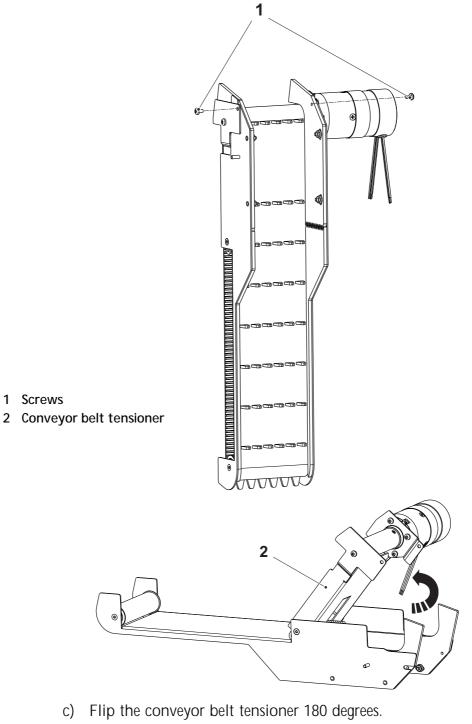


1 Nuts

7.4 Conveyor Belt

Equipment required	Spanner 7 mm Torx T20

- a) Remove the conveyor, see <u>7.3 "Conveyor Removal" on page 23</u>.
- b) Remove the two screws (1).

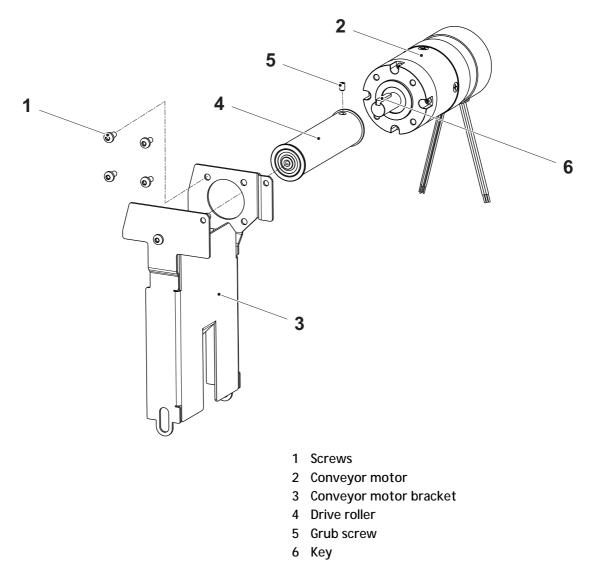


- d) Remove the conveyor belt.
- e) Assemble in the reverse order. Make sure the belt is down on the sides.

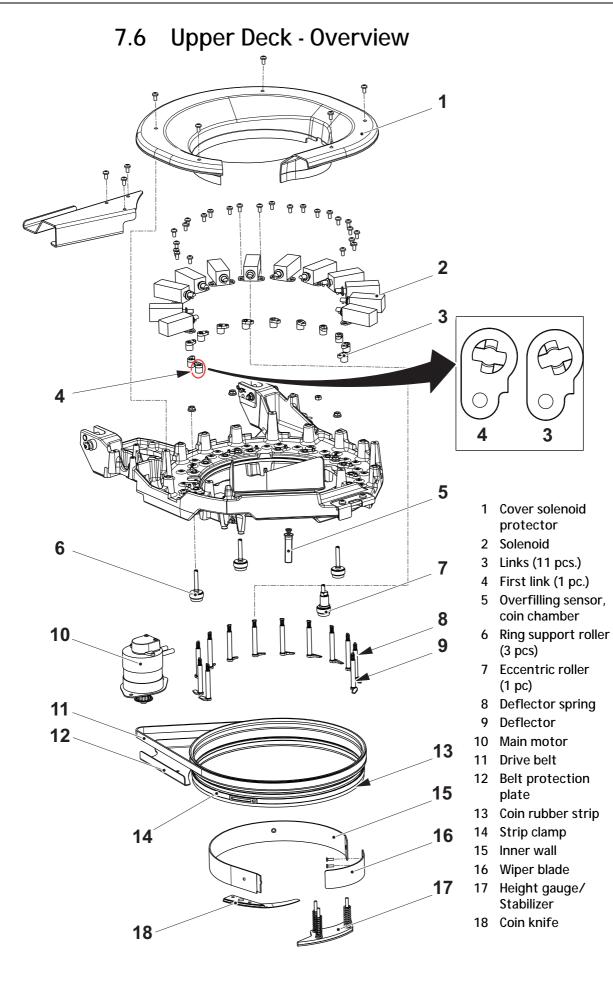
7.5 Conveyor Motor

Equipment required Torx T20

- a) Remove the conveyor, see <u>7.3 "Conveyor Removal" on page 23</u>, and the conveyor belt, see <u>7.4 "Conveyor Belt" on page 24</u>.
- b) Remove the screws (1).
- c) Remove the conveyor motor (2) from the bracket (3).
- d) Remove the grub screw (5) from the drive roller (4) to release it from the motor (2).



e) Assemble in the reverse order. Make sure not to lose the key (6).

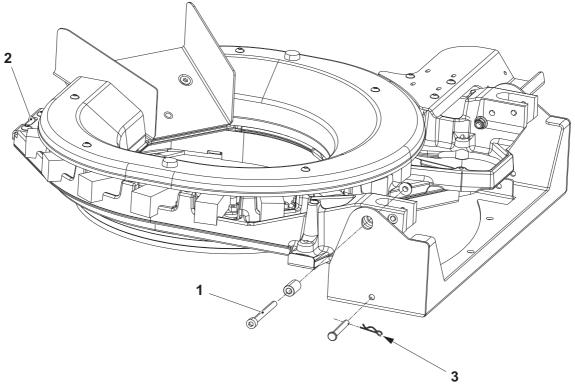


7.7 Upper Deck - Removal

Equipment required	Spanner 8 mm
	Torx T25

Removal

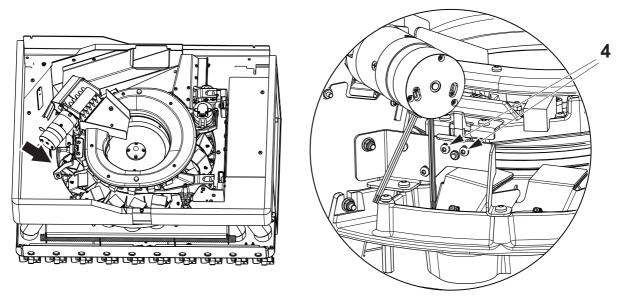
a) Remove the service cover, see <u>7.16 "Electrical Box" on page 44</u>, and disconnect motor, encoder and solenoid cable from the main board.



- 1 Screw
- 2 Upper deck locking catch pin
- 3 Clevis pin
 - b) Remove the screws (1), using a Torx key and a spanner. One on each side.
 - c) Release the catch from the locking catch pin (2).
 - d) Lift out the upper deck 90°, disconnect the two springs and remove the clevis pins (3), one on each side.
 Cable will need to be carefully passed through inner shelf as the upper deck is removed.

Assembly

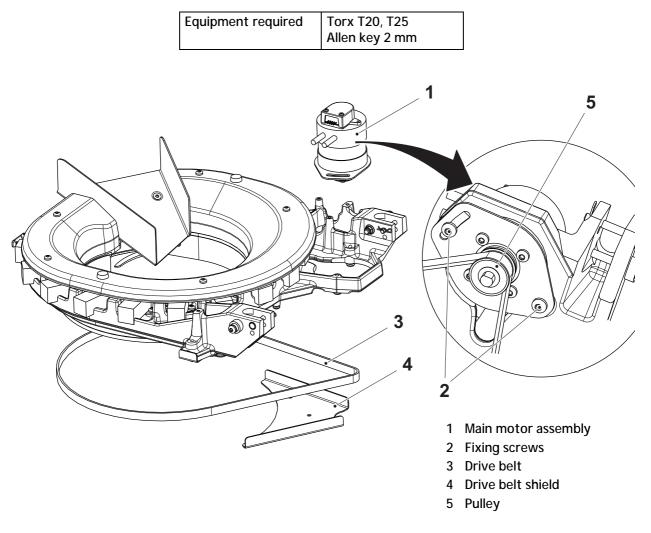
Make sure that the catch assembly catches and holds the top deck firmly. A minor adjustment can be done with the two screws (4).



4 Screws

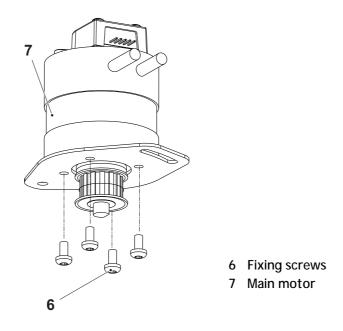
Ensure that all three mounting points are firmly down on lower casting posts. No gap must be seen when the top casting is in its operating position.

7.8 Main Motor and Drive Belt



- a) Open the top deck.
- b) Disconnect the motor and the encoder cable.
- c) Using the Torx key, remove the drive belt shield (4).
- d) Using the Torx key, loosen the two screws (2) on the motor assembly (1) to slacken the drive belt (3).
- e) Remove the drive belt (3) from the pulley (5).

>>>



f) Remove the four screws (6) and remove the motor (7).

Assembly

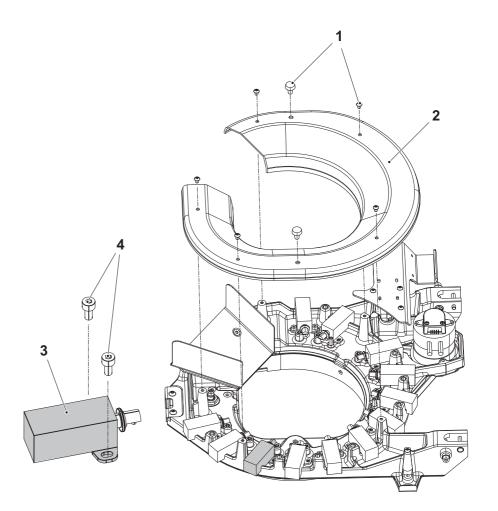
Assemble the motor. Let the two fixing screws (2) be a bit loose (1 turn).

Note! The motor must be set with minimal tension. When tensioning the belt, the ring must not be distorted. All coin ring rollers must still rotate when the mechanism is rotated.

7.9 Solenoid

Equipment required Torx T20

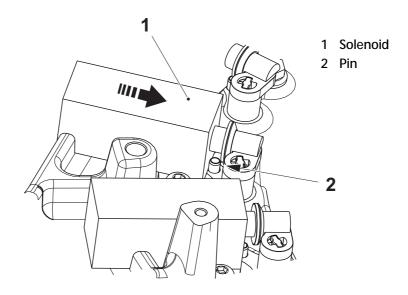
- a) Remove the screws (1) and the solenoid cover (2).
- b) Disconnect the solenoid (3).



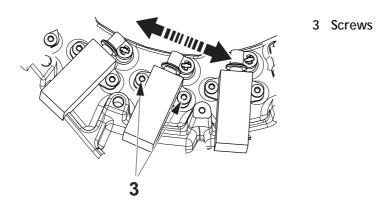
- 1 Screws
- 2 Solenoid cover
- 3 Solenoid
- 4 Fixing screws
- c) Remove the two fixing screws (4).
- d) Lift out the solenoid (3).

Assembly

a) Push the solenoid (1) up against the pin (2).



b) Make sure that the shaft moves in and out and that the solenoid can move from side to side. Fix in between and tighten the screws (3).

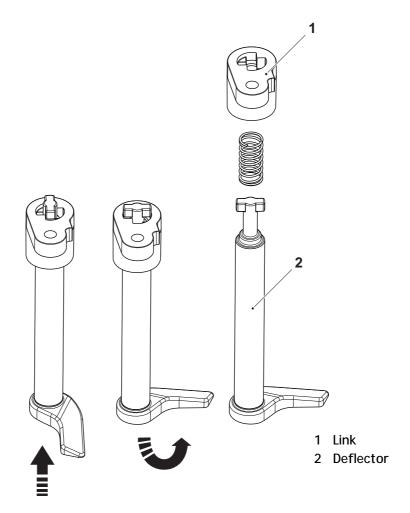


c) Ensure that the armature moves freely without the belt on.

7.10 Deflector

Equipment required	Torx T20
Equipriorit roquirou	101/1/20

a) Remove the solenoid cover, see <u>7.9 "Solenoid" on page 31</u>.

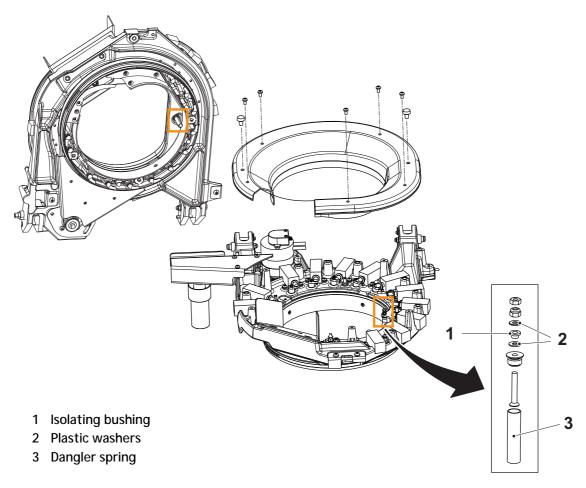


- b) Push the deflector (2) upwards and turn it counter clockwise 90 degrees.
- c) Pull out the deflector (2).
- d) Remove the link (1).
- **Note!** With the top deck closed, going clockwise from the coin chute, the first link is different from all of the others. It is coloured green.

7.11 Dangler Spring, Coin Chamber

Equipment required	Torx T5
	Spanner 5 mm

- a) Open the upper deck.
- b) Remove the solenoid cover, see <u>7.9 "Solenoid" on page 31</u>.

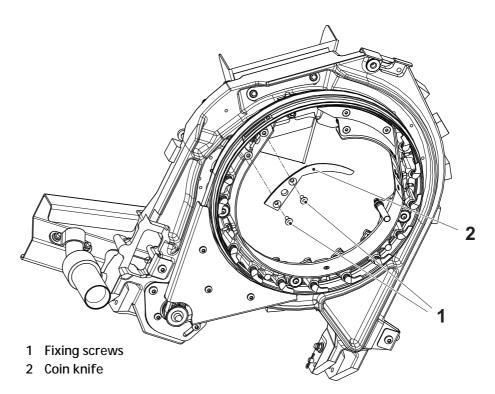


- c) Using the spanner, unscrew the spring and disconnect the cable.
- **Note!** When assembling, do not forget the isolating bushings and the plastic washers to avoid short-circuit.

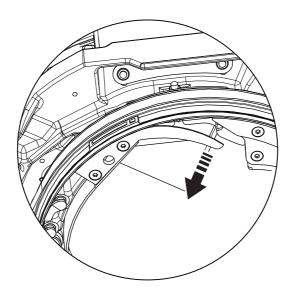
7.12 Coin knife



- a) Open the upper deck.
- b) Remove the coin knife fixing screws (1).
- c) Remove the coin knife (2).



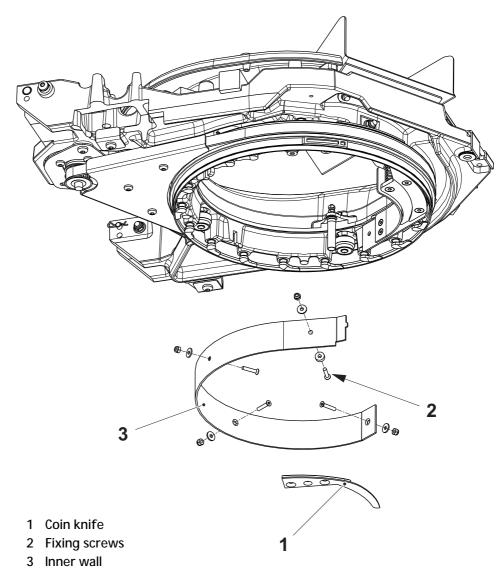
d) Assemble in the reverse order. Make sure that the end of the coin knife is held in when tightening the screws.



7.13 Inner wall

Equipment required	Torx T10, T20
	Spanner 5.5 mm

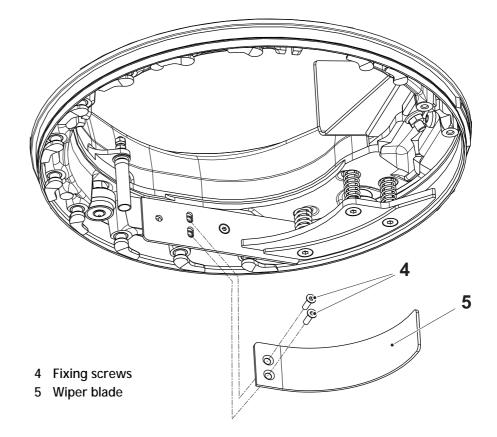
- a) Open the upper deck.
- b) Remove the coin knife (1), see 7.12 "Coin knife" on page 35.



c) Using the T10 and the 5.5 mm spanner, loosen the four fixing screws (2) and pull out the inner wall (3).

>>>

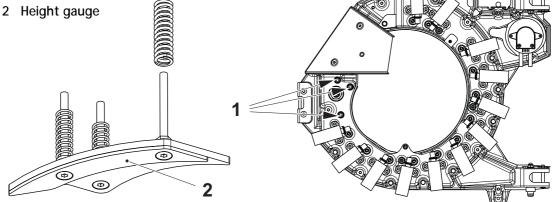
d) Remove the two screws (4) and the wiper blade (5).



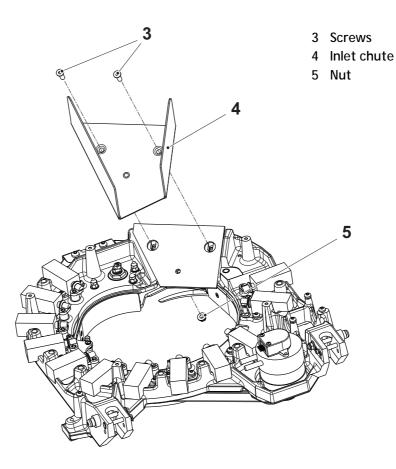
7.14 Roller Assembly Upper Deck

Equipment required

- a) Remove the solenoid cover, see <u>7.9 "Solenoid" on page 31</u>.
- b) Remove the three nuts (1) and the bushes.
- c) Unlock and open the upper deck to pull out the height gauge (2).
- 1 Nuts

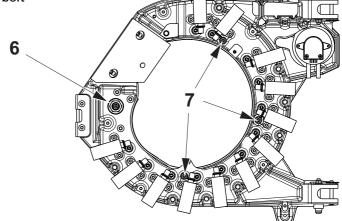


- d) Remove all the deflectors, see 7.10 "Deflector" on page 33.
- Remove the two screws (3), the nut (5) and the inlet chute (4) for e) easier access.

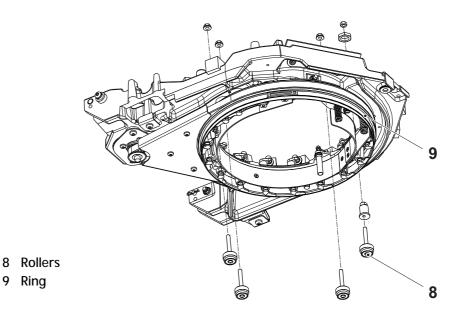


>>>

- f) Remove the coin knife, see <u>7.12 "Coin knife" on page 35</u>.
- g) Remove the circulation plate, see 7.13 "Inner wall" on page 36.
- h) Slacken the drive belt, see steps a-c on instruction <u>7.8 "Main</u> <u>Motor and Drive Belt" on page 29</u>.
- i) Using the fork wrench and spanner, remove the nut and the eccentric bushing bolt (6).
- 6 Eccentric bushing bolt
- 7 Nuts



- j) Using the wrench and a screw driver, remove the three nuts (7).
- k) Remove the four rollers (8) and the ring (9).



Assembly

It is important to set all four rollers to exactly the same height. Mark the position of the rollers and in any future adjustment, move all four rollers up or down by the same amount. M5 screw is used, which means 1/4 turn equals 0.2 mm.

- a) Clamp down the upper deck.
- b) Ensure all three mounting points on the top casting are in contact with the mating mounting points on the lower casting.
- c) Put the three rollers back loosely.
- d) Put the eccentric roller back, tighten the M12 nut.
- e) Set the rollers at the same height, using the conical spacer (part number 5005044-000) to screw the three rollers back down, paper underneath.
- f) Lock in position and mark position of roller adjusting slot.



- g) Remove the eccentric roller.
- h) Loosen the locking nuts on the remaining rollers, noting their orientation to the mark previously made.
- i) Carefully locate the ring on the three remaining rollers and then re-insert the eccentric roller.
- j) Adjust the eccentric roller accommodate any radial clearance, taking care not to distort the ring.
- k) Re-tighten the locking nuts on the rollers.
- I) Check that all rollers and ring rotate freely.
- m) Put the drive motor and the drive motor belt back on, see <u>7.8 "Main Motor and Drive Belt" on page 29</u>, with minimum pressure. Check that all rollers spin.

>>>

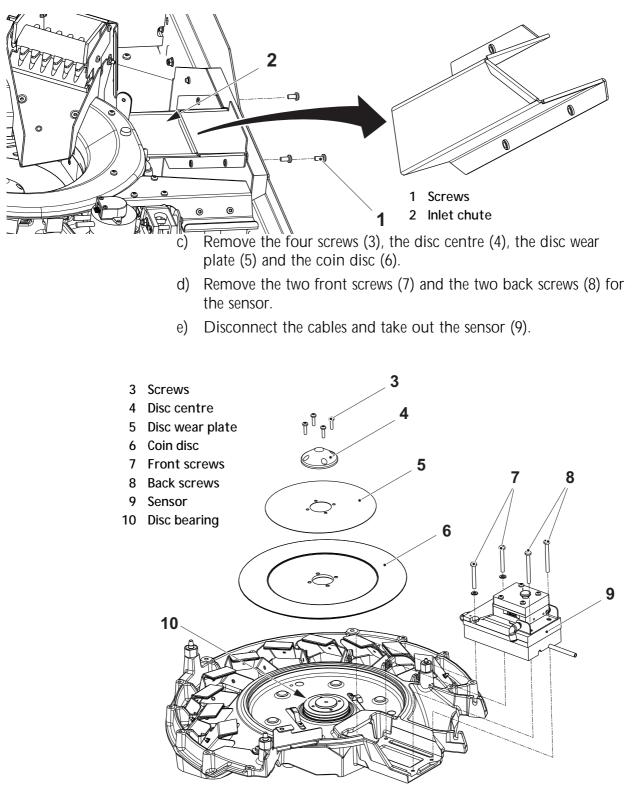
>>>

- **Note!** New belt should be touching the disc all way around.
 - n) Adjust the height of the rollers, if necessary (a quarter of a turn is 0.2 mm for the rollers).
 - check positive turn on disc (not slipping when motor belt is locked). Minimum load on both motor and eccentric roller with all four rollers spinning.
 - p) Refit the circulation plate, see 7.13 "Inner wall" on page 36.
 - q) Put the deflectors back on, see 7.10 "Deflector" on page 33.
 - r) Refit height gauge (0.2 mm coin clearance under inner plate).
 - s) Lock height gauge nuts when adjusted.
 - t) Refit the wiper blade, see <u>7.13 "Inner wall" on page 36</u>.
 0.2 mm coin clearance underneath the two screws.
 - u) Refit belt guard.
 - v) Refit coin knife, see 7.12 "Coin knife" on page 35.
 - w) Refit the inlet chute.
 - x) Refit hopper cover, see 7.9 "Solenoid" on page 31.

7.15 Lower Deck and Sensor Unit

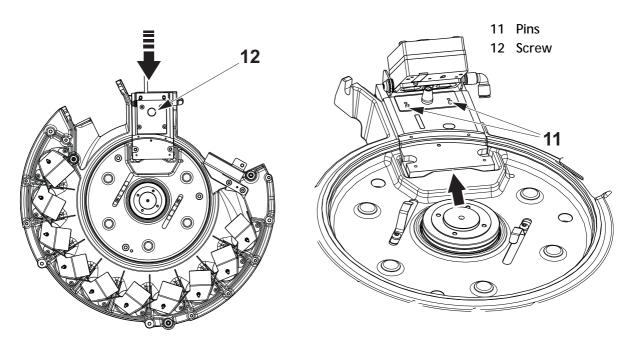
Equipment required	Torx T10, T20
	Spanner 5.5 mm

- a) Open the upper deck.
- b) For easier access, remove the three screws (1) on the back of the machine, and remove the inlet chute (2).



Assembly

- a) Push the sensor forward to the casting.
- b) Put the two back screws on loosely, so the top sensor can move. Then push the sensor back to fit on the two pins (11).

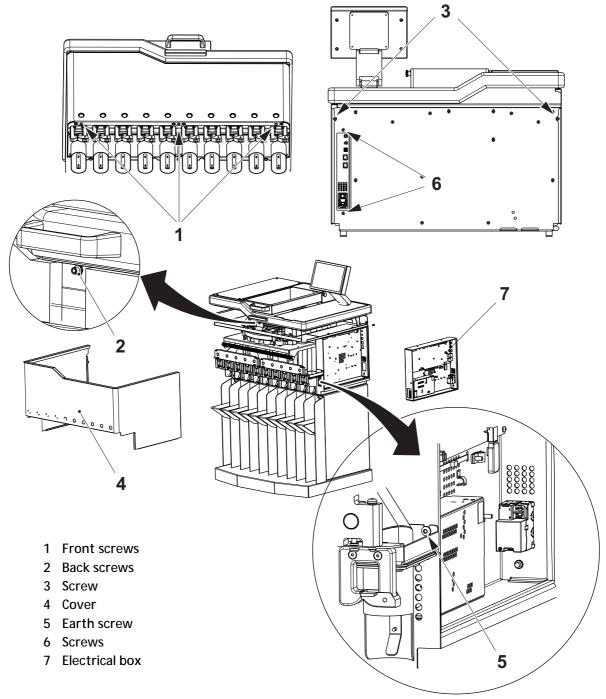


- c) With the sensor pushed back on the pins, lock the sensor in position with the screw (12).
- d) Make sure that the bottom sensor is in contact with the casting at front (see arrow in picture).
- e) Tighten the back screws.
- f) Check that the surface of the disc bearing (10) is clean.
- g) Refit the disc parts (3), (4), (5) and (6).
- h) Check the disc height (0 0.1 mm higher than the sensor). The disc height is factory set. There are shims to be placed under the sensor in order to achieve the correct height, see <u>8.2 "Lower</u> <u>Deck and Sensor Assembly" on page 51</u>.

7.16 Electrical Box

Equipment required Torx T25

- a) Loosen the three front screws (1), the screw (2) and the two back screws (3) for the cover.
- b) Remove the cover (4).
- c) Disconnect the earth screw (5).
- d) Remove the two screws (6).

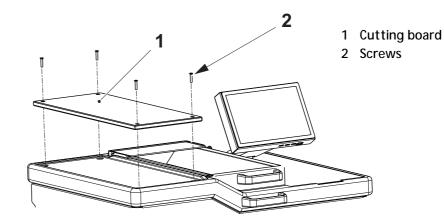


e) Disconnect the cables and the air hose for the pump and remove the electrical box (7).

7.17 Cutting Board



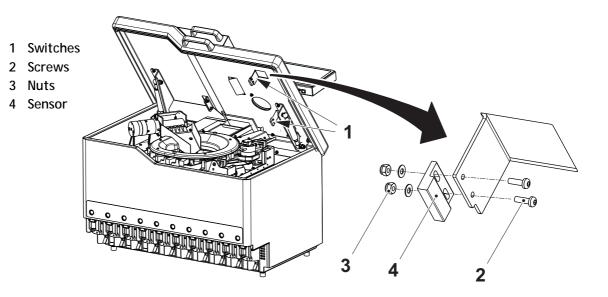
a) The cutting board (1) is reversible. To remove it, remove the four screws (2).



7.18 Manual Override Switch

Equipment required	Torx T10
	Spanner 5.5 mm

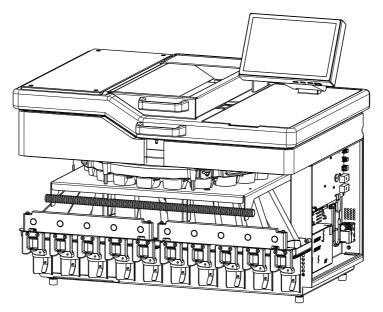
- a) Open the top cover.
- b) There are two switches (1) placed on the inside of the top cover.
- c) Remove the two screws (2) and the nuts (3).
- d) Remove the sensor (4).



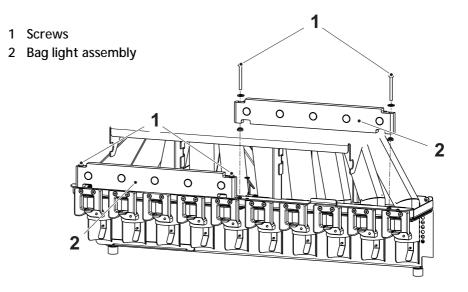
7.19 Bag Lights

Equipment required Torx T25

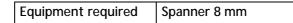
a) To get access to the bag lights, first remove the front cover, see <u>7.16 "Electrical Box" on page 44</u>.



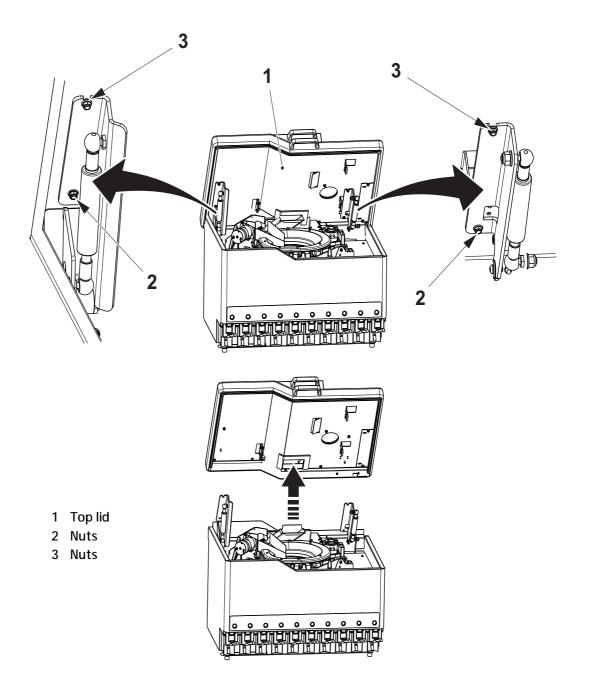
- b) Remove the link cable between the two sets of buttons.
 If the right hand unit is to be removed, also remove the chute block cable and the cable to the electrical enclosure from the right hand side.
- c) Remove the two screws (1) for the bag light assembly (2). The two bag light assemblies are interchangeable.



7.20 Top Lid



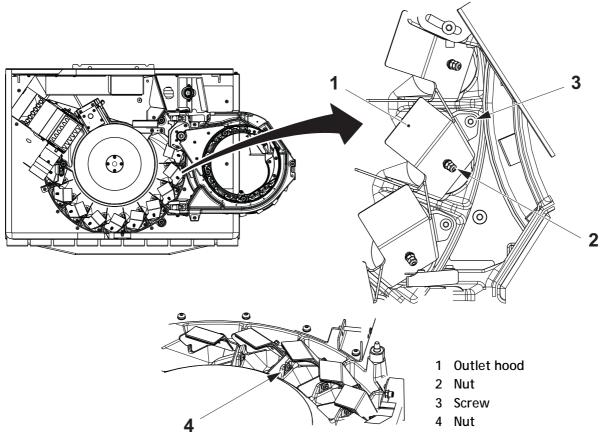
- a) To remove the top lid (1), remove the two nuts (2) for both hinges.
- b) Loosen the two nuts (3) a couple of turns.
- c) The top lid can now be lifted off the hinge bracket slots.
- d) Assemble in the reverse order. The bracket slots will support the lid while it is being assembled.



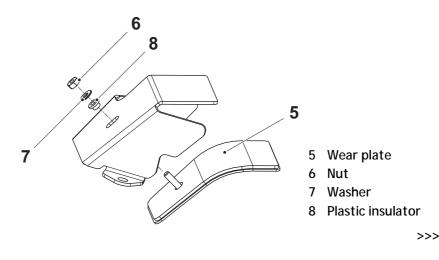
7.21 Outlet Hood

Torx T20
2 x Spanner 5.5 mm
Spanner 7 mm

- a) Open the top casting.
- b) Remove the nut (2) and the cable for the overfill protection.
- c) Remove the screw (3), and the nut (4).
- d) Remove the outlet hood (1).



e) To remove the wear plate (5), remove the nut (6), the washer (7) and the plastic insulator (8).



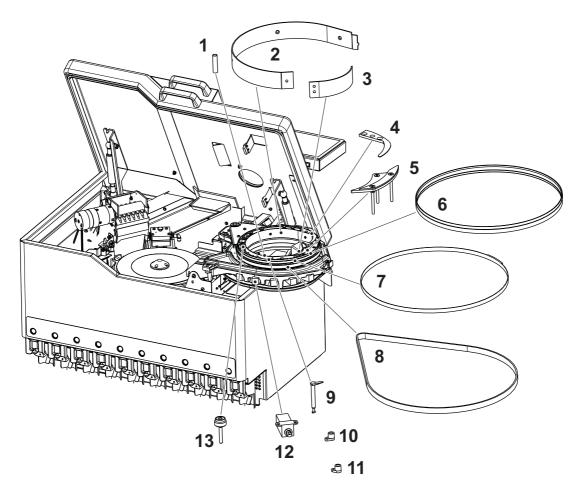
>>>

f) Assemble in the reverse order. Push the outlet hood in the direction of the disc when tightening the nut (4).
 The outlet hood must also be firmly down its machine ledge.

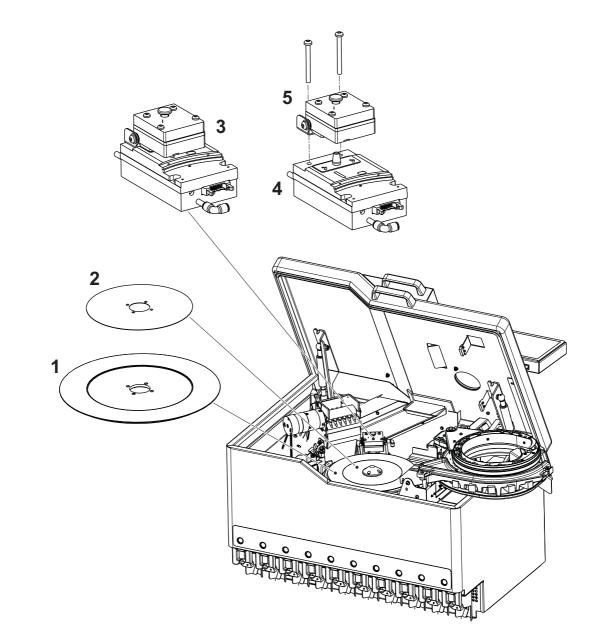


8 Spare Parts List

8.1 Upper Deck



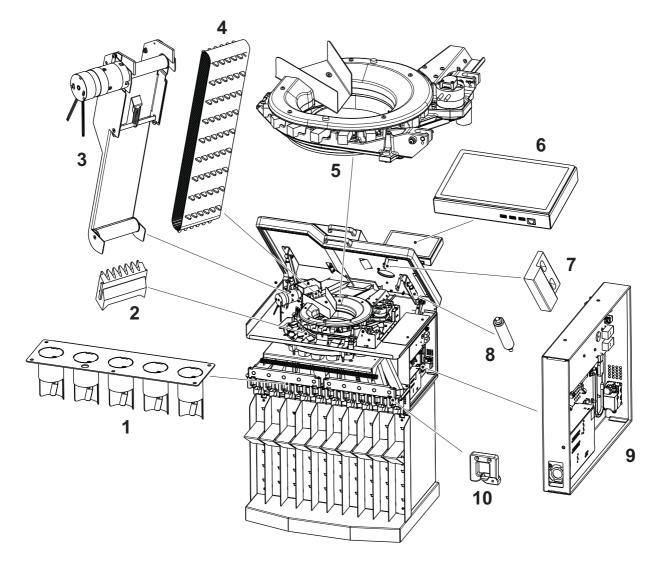
Pos.	Part No.	Description	Remarks
1	5004988-000	Spring, ICX actuator	
2	5004429-000	Inner wall	
3	5004431-000	Wiper blade	
4	5004269-100	Coin knife	
5	5004432-000	Height gauge/Stabilizer	
-	5005045-000	Kit, 5x Coin Belt + Clamp	
6	018350-000	Belt, coin rubber	
7	310188-002	Clamp, coin belt	
8	5004247-000	Belt, drive	
9	5004188-000	Deflector	
10	5004223-001	Link, recirculation deflector	Green, 1 pc.
11	5004223-000	Link, standard deflector	Black, 11 pcs.
12	5004189-000	Solenoid	
13	033159-000	Ring support roller	



8.2 Lower Deck and Sensor Assembly

Pos.	Part No.	Description	Remarks		
1	5004260-000	Disc			
2	5004259-000	Disc wear plate			
3	5004930-000	Complete sensor			
4	5004929-000	Bottom sensor			
5	5004928-000	Top sensor			
-	5004399-000	Cable, top sensor	Not shown.		
-	5005104-005	Shim, 0.005 mm	For sensor height adjustment.		
-	5005104-010	Shim, 0.010 mm	For sensor height adjustment.		
-	5005104-020	Shim, 0.020 mm	For sensor height adjustment.		
-	5005104-050	Shim, 0.050 mm	For sensor height adjustment.		





Pos.	Part No.	Description	Remarks		
1	5004375-000	Coin outlet tubes			
2	5004366-000	Conveyor sump			
3	5004360-000	Conveyor			
4	5004677-000	Conveyor lift belt			
5	5004920-000	Top casting			
6	5005021-000	HMI assy			
7	5000128-000	Interlock magnet			
-	5005036-000	Interlock cable	Not shown.		
8	5004597-000	Gas strut			
9	5005015-000	Electrical enclosure			
10	004291-000	Bag clamp assy			
-	5004977-000	Disruptor balls	To be placed inside the hopper. Not shown.		

9 Tool list

Tools	Qty.	Description
Spanner	2	5.5 mm
Spanner	2	7 mm
Spanner	1	8 mm
Spanner	1	10 mm
Spanner	2	13 mm
Spanner	1	15 mm
Spanner	1	17 mm
Nut spinner	1	5.5 mm
Nut spinner	1	7 mm
Nut spinner	1	8 mm
Nut spinner	1	10 mm
Torx key	1	Т6
Torx key	1	T10
Torx key	1	T15
Torx key	1	Т20
Torx key	1	T25
Torx driver	1	Т6
Torx driver	1	T10
Torx driver	1	T15
Torx driver	1	Т20
Torx driver	1	T25
Flat screw driver	1	1.2 x 6 mm
Calibration coin set	1	Part no. 031544-100
Belt tension gauge	1	
USB cable	1	
USB storage device	1	Min. 1 GB
P5000 service program	1	Part no. 5000246-000 Installed on technician's laptop
Coin belt fitting lubricant		Hellerine fluid lubricant or similar

Appendix A

A Checklist

ICX Active-9 Service Checklist			Date: Techniciar Initials:				
Machine No.			Coins with this belt				
Site			Number of new belts				
Setup In Use	tup In Use Call From		Total Coins counted				
Bag Setup							

Area	Description	Check	Comments
External	Check for any physical damage.		
	Check securely bolted to stand or table.		
	Check for any physical damage.		
HMI	Check functioning and record control board firmware version. Backup the machine before commencing any work.		
Test Menu (Supervisor)	Check the operation of motors, solenoids, sensors, buttons and switches.		
Open Top Cover			
Hinge	Check gas struts and safety switches.		
Hopper	Check input chute and hopper for foreign objects and/or damage.		
Conveyor	Remove conveyor, clean and check condition of belt. Ensure it rotates freely and tracks centrally.		
	Check condition of the sump and empty the dirt tray.		
Open Top Casting			

Area	Description	Check	Comments
Catch	Check catch securely holds the casting in the down position and operates the microswitch.		
	Check gap between the inlet chute and conveyor to ensure casting pivots freely.		
Visual Inspection	Check for foreign objects stuck between inner wall and coin belt.		
Coin Belt	Check condition of belt and ensure it is fitted correctly.		
Inner Wall	Check for wear or damage.		
Dangler	Check condition of spring.		
Height Gauge & Wiper Blade	Check height gauge is set correctly and free to float on the springs.		
	Check setting and condition of wiper blade.		
Knife	Check for wear or damage.		
Drive Ring	Clean internal groove and the support rollers.		
	Check ring rotates freely and all four support rollers are rotating.		
	Check for slip between the ring and the drive belt.		
Deflectors	Check for wear of the deflectors.		
Solenoids	Remove solenoid cover, check for foreign objects.		
	Remove coin belt and manually check each solenoid, link and deflector moves freely.		
	If sticky, remove and clean deflectors and check solenoid is fitted correctly.		
Bottom Disc	Check that the disc rotates freely.		
	Check the condition of the wear plate.		

Area	Description	Check	Comments
Sensor	Open sensor and check pump has been functioning correctly and the optical window is clean.		
	Check for dirt build-up on the mating face between the top and bottom sensors.		
	Check bottom sensor for excessive wear.		
Hopper Exit	Check for damage.		
Coin Chutes	Clean, checking for wear, damage or foreign objects.		
Close Top Casting			
Check Clearances to Disc	Gap under knife (mm) 0.2 +/-0.1 Gap under flippers (mm) 0.25 +/-0.15 Gap under inner wall (mm) 0.3 +/-0.2		
Bottom Disc Drive	With a new coin belt, check for positive friction drive between the disc and the motor (minimal slip). Negative Gap between belt & disc (mm) -0.1 +/-0.1		
Service Program	Calibrate		
	Record Coin		
	Check Rejects		
	Check Sorting		

Area	Description	Check	Comments
Additional			
comments			
1			