



TITAN - Cashline™

Installation

Rev. 2.1

May 2005

www.atronic.com

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Cashline Installation Manual for TITAN

Atronic Technical Services is proud to introduce the Titan Cashline manual. Atronic's Vision of "Great Games Great People" is a vision which is felt throughout the company. We hope that this manual is a strong illustration of how Atronic Technical Services is committed to making this Vision a reality.

The information in this manual includes the most update information available just prior to print. All part numbers and descriptions have been carefully reviewed and checked for accuracy. All drawings and diagrams contain the latest (newest) revision released by Atronic. If earlier revisions of diagrams or drawings are required, please contact your Atronic Technical Services representative.

Safety Instructions



Follow the precautions below to ensure safe operation.

Caution! High Voltage

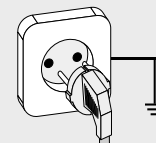
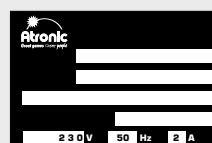
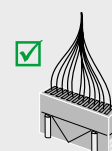
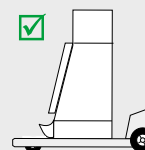
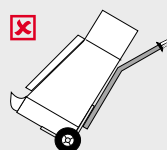
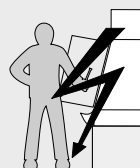
Power cable must be disconnected from the main power socket, before the machine is free from electrical current. Main power switch is intended for service purposes only.

Caution! Moving Parts

Make sure to disconnect the hopper, when working on it.

Precautions before operating

- The machine weighs about 283,5Kg (625 lbs). Do **not** use a cart to transport the machine!
- Check that all connectors are seated correctly. False connections can cause irreparable damage, not covered by warranty.
- Verify voltage specifications stated on type plate, before connecting to a main power socket. Machine must be connected to a **grounded** main power socket.
- Read the Service Manual carefully before operating the machine.

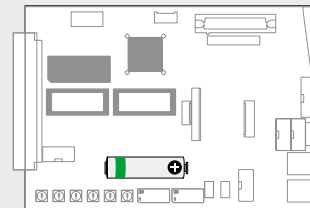
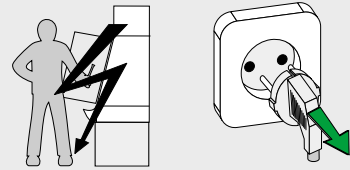


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Safety Instructions

Precautions during Service and Maintenance

- Only Qualified Service Personnel should perform repairs.
- Disconnect power cable from main power socket, before working on the machine. Power cable must be disconnected from the main power socket, before the machine is free from electrical current.
- Electronic assemblies should only be changed with the power switched off.
- Use only original Atronic parts for replacement.
- Atronic Comm board
Danger of explosion if battery is incorrectly replaced! Check for correct polarity and replace with the same or equivalent type only!
- Please refer to Atronic Service Manuals for further instructions on service and maintenance.



Additional Information

The X-rays, which develop in this machine, are sufficiently shielded through the Cathode-ray tube's own shielding. Max 24-24,5kV, Beam current max 630mA. This corresponds with Paragraph 5 of the German X-ray Orders from 1987.

Warranty, Disclaimers and Limitations of Liability.

ATRONIC WARRANTS THAT FOR A PERIOD OF ONE NINETY (90) DAYS FROM DATE OF SHIPMENT, PRODUCT PURCHASED HEREUNDER WILL BE FREE FROM DEFECTS AND IN GOOD WORKING ORDER. ATRONIC SHALL PROVIDE REMEDIAL MAINTENANCE, AND SERVICING FOR THE SPECIFIED WARRANTY PERIOD. BUYER'S SOLE AND EXCLUSIVE REMEDY IN THE EVENT OF DEFECT IS EXPRESSLY LIMITED TO THE RESTORATION OF THE PRODUCT TO GOOD WORKING CONDITION BY ADJUSTMENT, REPAIR OR REPLACEMENT OF DEFECTIVE PARTS, AT ATRONIC'S ELECTION. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, NO AFFIRMATION OF FACT, INCLUDING, BUT NOT LIMITED TO, STATEMENTS REGARDING SUITABILITY FOR USE OR PERFORMANCE OF THE PRODUCT SHALL BE DEEMED TO BE A WARRANTY OF ATRONIC FOR ANY PURPOSE. IN NO EVENT SHALL ATRONIC BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION LOSS OF PROFITS, ARISING OUT OF ANY BREACH OF THIS AGREEMENT. WHETHER SUCH DAMAGES RESULT FROM MALFUNCTION OF MACHINE HARDWARE AND OR SOFTWARE OR FROM ANY OTHER DEFECTS. PRODUCT PURCHASED MAY CONTAIN SOME RECONDITIONED PARTS, WHICH PARTS COME WITH FULL WARRANTY.

WARNING!

The TITAN Cashline manual is intended to provide QUALIFIED TECHNICAL PERSONNEL ONLY with the information necessary to routinely maintain, service, and repair the Atronic TITAN Cashline Cabinet and components. To avoid personal injury or damage the equipment, do not perform any serving other than that contained in this manual.

NOTE!

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Atronic International

Borsigstr. 26

32312 Luebbecke, Germany

(+49) 5741 273 720 FAX (+49) 5741 273 727

Atronic Americas

16537 N. 92nd Street

Scottsdale, Arizona 85260, USA

(+1) 480 922 0707 FAX (+1) 480 922 8877

Technical Support Telephone numbers

Atronic offers and provides technical support 24 hours day, 7 days a week. If technical assistance is required during normal business hours contact your local technical services representative at one of the below numbers. If technical assistance is required outside of normal business hours, please contact one of the Atronic Technical Hotline numbers below.

Technical Support Locations:

Atronic Germany (International Headquarters)	(+49) 5741 273 720
Atronic Scottsdale (Americas Headquarters)	(+1) 800 864 7670
Atronic Las Vegas	(+1) 702 270 7775
Atronic Reno	(+1) 775 857 2777
Atronic Mississippi	(+1) 228 604 2773
Atronic Peru	(+51) 1225 6501
Atronic South Africa	(+27) 11 466 2723
Atronic Australia	(+61) 3 9686 1226

Atronic Technical Hotline numbers:

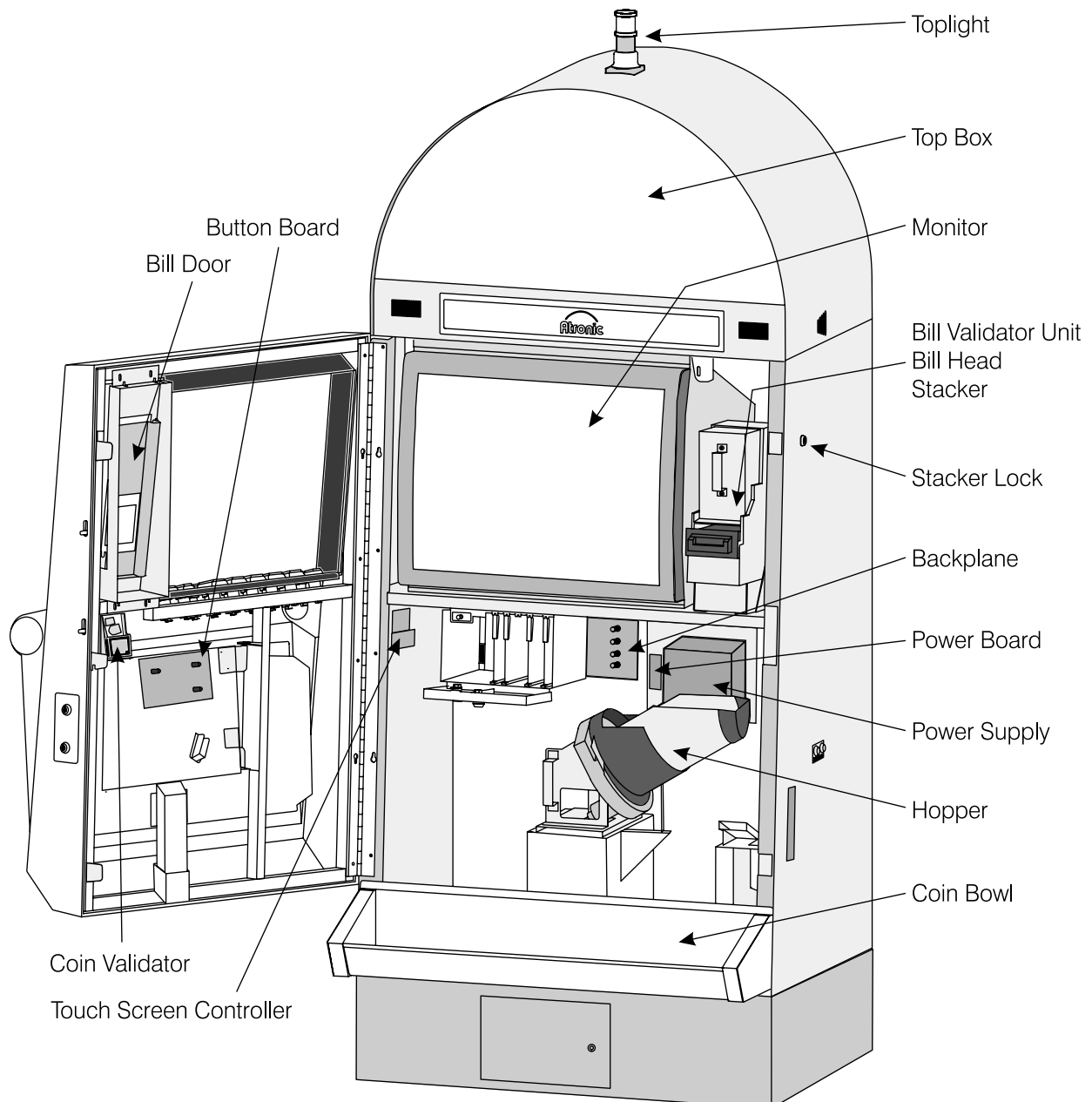
For Technical assistance in North America outside of normal business hours:

(+1) 800 559 1391

For Technical assistance in Europe, South Africa, South and Central America and Asia, outside of normal business hours:

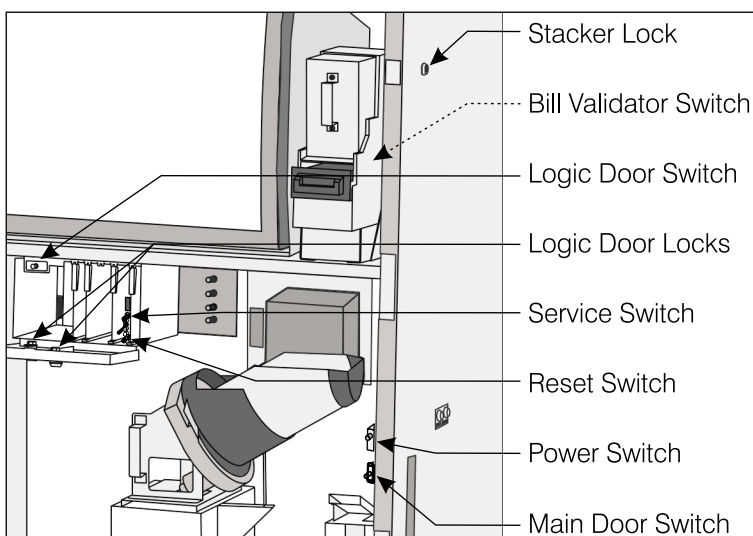
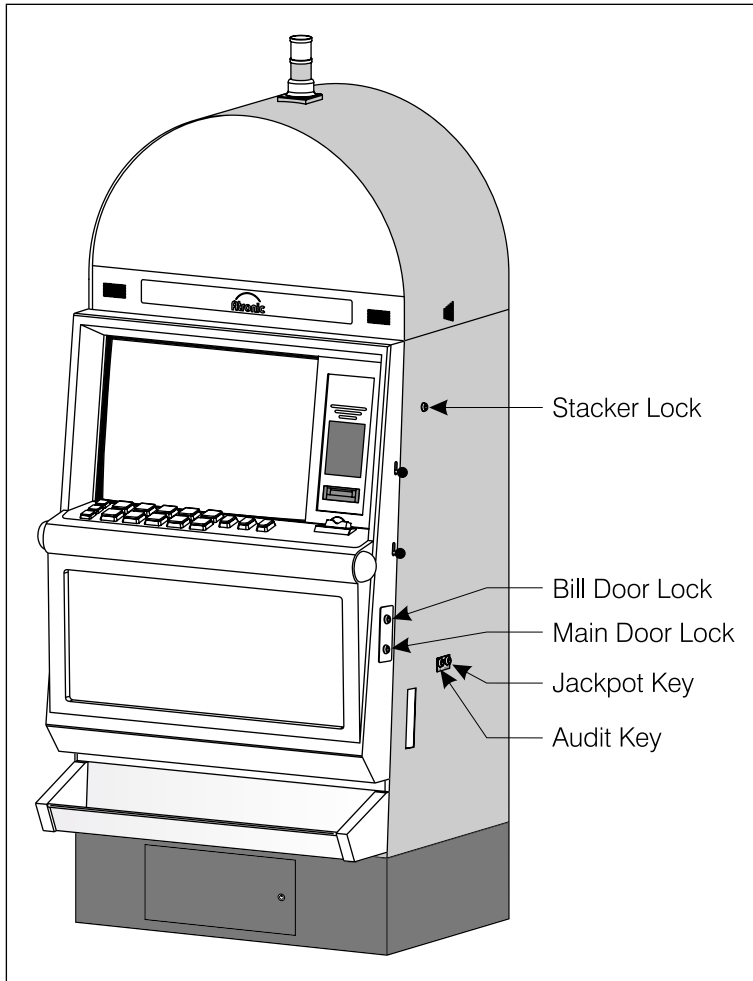
(+49) 5741 273 777

Machine Components TITAN Cabinet



LOCKS, KEYS & SWITCHES

Locks, Keys and Switches



Stacker Lock

Unlock stacker lock to remove the stacker.

Bill Door Lock

Unlocking the Bill door allows the validator and stacker to be removed without unlocking the Main door.

Main Door Lock

Allows access to the machine components via the Main Door.

Jackpot Key

Jackpot events and hand pay administration are controlled by this key. It also controls remote credit function (if applicable).

Audit Key

This key activates the Audit Menu and illuminates the Hardmeters. It also clears Status and Error messages.

Bill Validator Switch

Removal of the validator and stacker is detected by this switch.

Logic Door Lock and Switch

Unlock Logic Door lock to get access to the boards. The (optional) Logic Door switch detects opening of the Logic Box.

Service Switch (Green)

Pressing the Service Switch activates the Service Menu.

Reset Switch (Red)

Used for resetting the machine and clearing the machines memory.

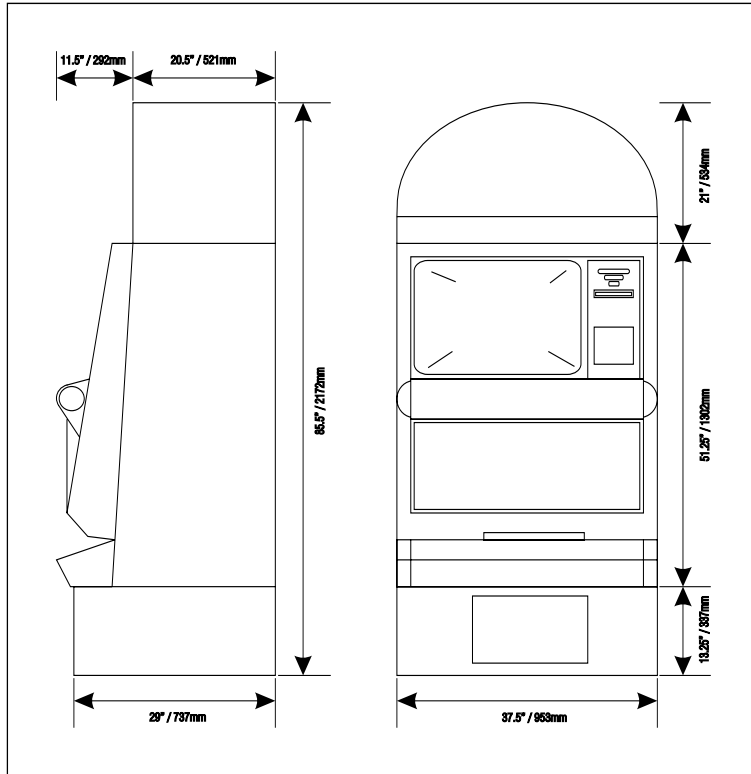
Main Door Switch

Registers all Main Door openings.

Power Switch (Red)

Switches Power Supply On/Off

Dimensions



DIMENSIONS

Cabinet "TITAN Cashline"

Weight: approx 625 lbs./283.5Kg
 Height: 85.5" / 2172mm
 Width: 37.5" / 953mm
 Depth: 29" / 737mm

Technical Data

Electrical Specifications

Required Voltage: 220V-240V, 2.0A, 50Hz
100V-120V, 4.0A, 60Hz

Primary Voltage

Power Consumption
Idle mode: approx. 418W
3.65A / 115V, 1.8A / 230V
Payout mode: approx. 667W
5.8A / 115V, 2.9A / 230V

Power Supply
Secondary Voltage: + 24V / 4A
+ 12V / 4A
- 12V / 0.3A
+ 5V / 10A

Secondary Voltage

Fuses

Power Supply: F 5A / 250V
Monitor: T 5A / 250V
Power Board: T 2A / 250V

Primary Fuses

Backplane F1: + 5V T 5A / 250V
Backplane F2: + 12V T 5A / 250V
Backplane F3: - 12V T 0.315A / 250V
Backplane F4: + 24V T 3.15A / 250V

Secondary Fuses

Lamps

Fluorescent Lamps: 17W, 24" / 610 mm
Button Lamps: 14V / 2W

Environmental Specifications

Operating Temperature: 32°F / 0°C - 113°F / 45°C
Operating Humidity: 0% to 85%

Suggested Limits

Combustible Weight: < 125 lbs. / 57 Kg

Machine Installation - Overview

This section should only be carried out by
Qualified Technical Service Personnel.

Review the list below and perform as needed. Explanations are located on the following pages and in additional manuals.

- ☐ Inspect machines for transport damage. Any transport damage should be noted and witnessed by the freight forwarder. The manufacturer accepts no responsibility for transport damage.
- ☐ Check machines for the correct Paytable, Glasses, Hardware configuration and that Software EPROMs are correctly installed on the PCBs.
- ☐ Install the Toplight.
- ☐ Replace shipping locks with Casino specific locks.
- ☐ Install and connect Online/Accounting system.
- ☐ Prepare Coin Comparator and Hopper.
- ☐ Check that all internal and external connections are seated correctly.
- ☐ Apply power to the machine.
- ☐ Load paper into the Printer.
- ☐ Execute basic machine setup (Initial Setup)
- ☐ Configure game.
- ☐ Test Bill and Coin handling.

Note:

Depending on the machine configuration and local circumstances, additional tasks may need to be carried out before operating the machine.

Machine Installation

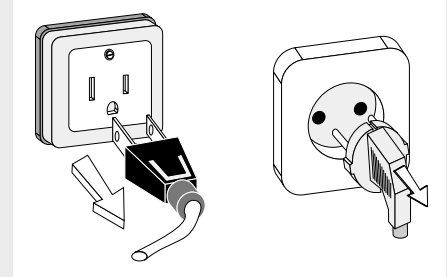
Following pages contain a description of machine fitting and commissioning. We recommend to follow all *cross-references* to get the necessary information.

Precautions



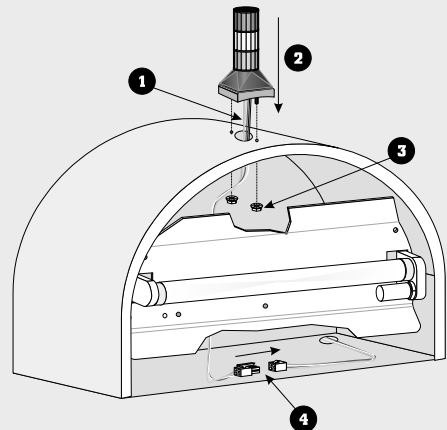
Caution! High Voltage

Power cable must be disconnected from the main power socket, before the machine is free from electrical current. Main power switch is intended for service purposes only.



Install Toplight

- Remove the Top Glass.
- Remove Reflector Panel from Top box by loosening the 4 screws and disconnect the power cable.
- Run Toplight harness through the opening on top of the Top box (1).
- Fix the Toplight to the Top box (2) and secure with one nut (Square Top) or two nuts (Round Top and Low Top) (3).
- Connect the Toplight Molex connector (4).
- Reinstall Reflector Panel and connect power cable.



Replace shipping locks

Atronic machines are equipped with shipping locks for easy commissioning. These locks have to be replaced by Casino specific locks to provide appropriate security.

-> See also page 9 - Keys, locks and switches.

Machine Installation cont.

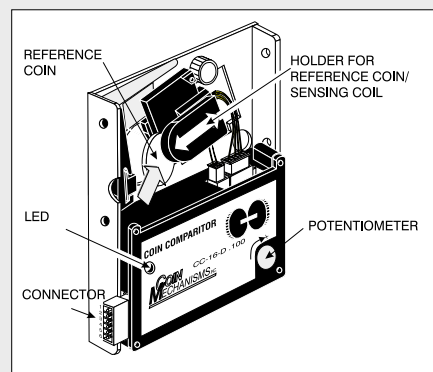
Prepare Coin Comparitor CC16/MC16

- Slide Holder for Reference Coin rightwards, remove (plastic) transport Token and replace it with appropriate reference coin or Casino Token.
- Fine tune the Coin Comparitor (if necessary) later when machine setup is completed.

Quick guide for fine tuning:

- Turn potentiometer fully clockwise (all coins are rejected).
- Then turn potentiometer anti-clockwise until proper coins are accepted and falsified coins are rejected.
- Test acceptance with at least 10 coins and re-adjust, if necessary.

-> See manuals *Peripherals / Coin Acceptors* for details.

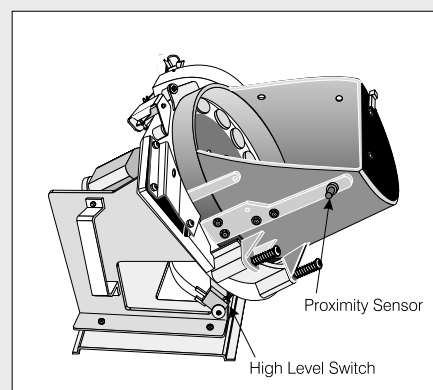


Prepare Hopper

The Hopper "High Level Switch" detects the filling level of the hopper by the weight of the coins. If the switch is activated, further accepted coins are separated to the drop box. Switching threshold can be altered with an adjustment screw.

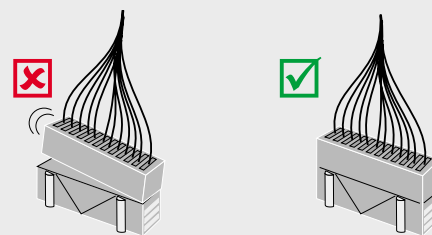
- Fill the Hopper with that amount of Coins/Tokens at which you want the switch to be activated.
- Adjust switching threshold with the adjustment screw that operates the High Level Switch.

-> See manuals *Peripherals / Hopper* for details.



Check cable and connectors

Check that all connectors are seated correctly, prior to first power up. False connections can cause irreparable damage, not covered by warranty.



Machine Installation cont.

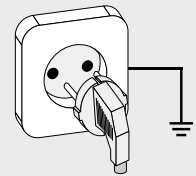
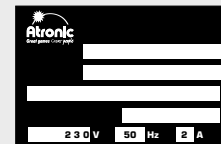
Check DIP-Switch settings

DIP switch settings are pre-set during production as specified in the order. It might be necessary to change DIP settings to meet all Casino requirements. Use the DIP switch tables within manual "Software" to check or alter DIP settings of Master board and Comm board (optional).

-> See manual "Software" for details

Apply power

- Verify voltage specifications stated on type plate, before connecting to a main power socket.
- Connect main cable to a **grounded** main power socket, that is capable to deliver the specified current rating.



Switch on the machine

- Press Power Switch to switch on the machine. The LED's on the Master Board (they indicate correct voltages) should all be lit.
- To operate the machine while main door is open, pull Main Door Switch to set it to closed position.

Execute basic machine setup (if needed)

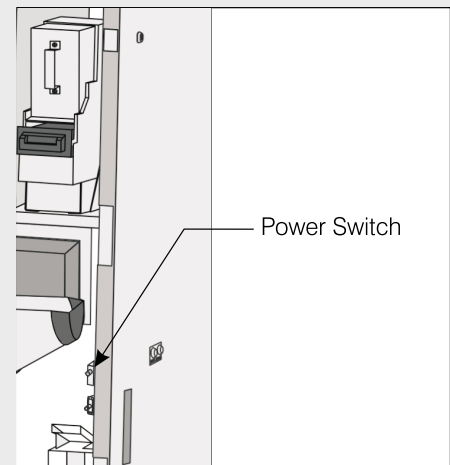
If any changes to the factory pre-set basic machine setup are needed, further procedures are necessary.

Init Setup (needs RAM-Reset)

Selectable Paytable Configuration (needs Config Key EPROM)

PC-Setup (needs external configuration software)

-> See manual "Software" for details



Machine Installation cont.

Configure game

Configure game settings, which are accessible during normal operation. To access **Service Menu** open main Door and press Service Button inside the Logic Box.

Service Menu has following options:

- Set Clock

Service Menu / Menu Setup has following options:

- Toplight
- Hopper Payout Limit
- Change Language.
- Double Up Setup
- Bills Enabled
- Animation Mode/Sound
- Win Presentation
- Jackpot Music (Volume)
- System Lockup Options
- Voucher Redemption
- Sound Menu (Volume)
- Set Celebration Limit
- Change Token Window
- Denomination Window
- Residual Handling With Card

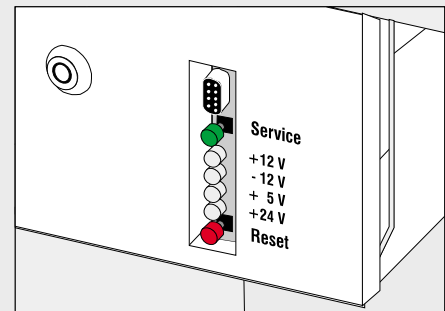
-> See manual "Operating" for details.

Test Bill and Coin handling

- Check Coin channeling optics.
-> Service Menu / Selftest / Optoboard Test
- Test Bill Validator acceptance
-> Service Menu / Selftest / Bill-Aacceptor Diagnostics
- Test Hopper payout
-> Service Menu / Hopper Out (1)

-> See manual "Operating" for details.

At this point machine installation is finished.



Service

Procedures in this section should be carried out by **Trained Casino Personnel**.

Warning !

Only **Qualified Service Technicians** should work on an open machine, if power is switched on. The machine must be switched off, if other personnel is working on the machine.

Hopper Refill

- Open Main Door.
- Press the Hopper securing clip (underneath Hopper) and slide out the Hopper.
- Refill Hopper with the determined amount of coins. Check that no coins have fallen into the cabinet.
- Slide the Hopper back into the machine.
- (optional) Enter the number of refilled coins to menu item **Service Menu / Menu Setup / Set Hopper Refill**, which applies to statistic **Hopper Content**.
- Close Main door.

Stacker Exchange/Removal

- Unlock and open Bill door.
- Unlock the stacker lock.
- Unlock the safety bracket, and exchange/remove stacker.
- Re-Install the emptied Cash box (or a new one) and lock the stacker lock.
- Lock Bill Door.

-> See also manual "Operating", which provides more information about operating procedures, statistics, test functions and menu settings.

Note:

Internal Casino regulations may require different or additional procedures.