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Built for Reliability

The Benchmark Ticket Station is a compact ticket cash in machine that was engineered for reliability. Here are some of the key features you should be aware of:

1. Self Cleaning

• All of the opto sensors and barcode scanners are automatically cleaned with an air blast regularly

2. Independent Systems

• Each door contains a ticket taker system independent from one another. If there is a problem with one of the systems, the remaining systems will still operate

3. Redundant Power Supplies

• There are two power supplies in each ticket station.

4. Status Tower Light

• The ticket station features a tower light ht that will signal a printer problem (out of paper etc.), a ticket taker problem, and will let you know when the ticket bags are full

5. Low Dust Cutting

• The cutters in the Ticket Station are designed to cut the tickets like a pair of scissors for low dust creation, contributing to clean optos and barcode scanners.

1 to 4 Stations Field Expandable

Standard unit is complete and ready to add another station at any time. Just bolt the door on and plug it in.

Important Note:

Each of the access doors uses a power lockout switch. When the door is open, the ticket taker will not operate unless you manually pull the switch to turn it on. If you must activate the power while the door is open, use caution around the moving parts and belts in the ticket taker.

For more information and service details, please visit <u>www.benchmarkgames.com</u>.

Setup

1. Install Power Cord

The power cord can be run down and out the bottom of the machine or up and out the top of the machine.

- To run the cord out the bottom of the machine:
 - 1. Feed the <u>power cord</u> through the <u>lower power</u> <u>cord hole</u> in the bottom of the machine.
 - 2. Connect power cord to the power connector^③ at the main harness.
 Be sure to secure the wires tight along the inside corner away from the scale floor^④
 - 3. Plug power cord into a power receptacle. If a floor receptacle is used, position machine over the top of it.
- To run the cord up and out the top of the machine:
 - 1. Detach the <u>power wires</u> from the wire clips on the inside left corner of machine
 - 2. Run power wires up inside corner attaching into wire clips
 - 3. Remove <u>wire plate screws</u>[®] and <u>wire plate</u>^⑦
 - 4. Connect power cord to <u>power</u> <u>connector</u>® on the main harness.
 - 5. Run the power cord up and out the top of the machine securing with wire clips.
 - 6. Replace wire plate and reattach with screws.
- 2. Install ticket bags (see "Changing Ticket Bags" section of this manual).
- **3.** Program barcode, machine number, etc. as desired (see "Programming section of this manual).

View inside looking up



View inside looking down







General Operation

- Insert tickets into the ticket taker using the easy load <u>ticket</u> <u>ramp</u>①. The <u>LED display</u>② will indicate the number of tickets counted and the <u>Print Receipt</u> <u>Button</u>③ will flash.
- When all of the tickets have been fed into the machine, press the Print receipt button and wait for the printer to completely print the receipt. The receipt will feed to the front of the printer bezel and stop.
- 3. Pull the receipt straight out.
- 4.

Air Blast Cleaning System

The Air blast cleaning system in the Ticket Station is comprised of an air pump, a relay, the main air hose plumbing, one air valve per ticket taker, and the local air hose plumbing that is distributed from a manifold after the air valve.

The cleaning cycle starts whenever any one of the ticket takers has taken 350 tickets. It restarts every 350 tickets thereafter.

At the beginning of the cleaning cycle, the pump runs for about 10 seconds to build pressure in the system. The air solenoid corresponding to the ticket taker that has taken the 350 tickets is then activated, releasing an air blast over the barcode scanners and opto sensors.

Changing Ticket Bags

- 1. Open front door.
- 2. Remove basket <u>containment rail</u>^①.
- 3. Remove front <u>ticket basket</u>②, pull ticket bag through the bottom of the basket, and remove ticket bag.
- 4. Repeat step 3 for the rear ticket bag.
- 5. Replace ticket bags and basket containment rail.





Loading Printer Paper

The printer will take different paper roll sizes. Small paper rolls (usually 7/16" diameter core) should be loaded on the <u>small spindle</u> located on the printer assembly. The largest paper roll that can be used on the small spindle is 2-3/4" diameter. Large paper rolls (11/16" diameter core) are loaded on the <u>large spindle</u> located above the printer assembly on the door. The largest paper roll that can be used on the large spindle is 6".

Note: The printer will only print on one side of the paper. Pay attention to the orientation of the paper roll when installing.

Loading Small Rolls

- 1. Turn the <u>roller release handle</u> ① counter clockwise ¹/₄ turn so that the paper will be allowed to feed into the printer.
- 2. Load the paper onto the <u>small spindle</u>^② so that the free end is fed from the bottom of the roll and over the <u>guide rail</u>^③.
- 3. Feed paper as shown in the picture on the side of the printer.
- 4. Turn the <u>roller release handle</u> Clockwise ¹/₄ turn into the ready position. The printer will automatically feed.
- 5. Tear excess from bezel.

Loading Large Rolls

- Turn the <u>roller release handle</u> ① counter clockwise ¹/₄ turn so that the paper will be allowed to feed into the printer.
- 2. Load the paper onto the <u>large spindle</u> ④ with the free end of the paper facing down and away from the door.
- 3. Feed the paper under the <u>small spindle</u>^②, over the ticket guide rail^③ and into the printer.
- 4. Turn the <u>roller release handle</u> Clockwise ¹/₄ turn into the ready position. The printer will automatically feed.
- 5. Tear excess from bezel.





Tower Light Status

The tower light located on the top of the Ticket Station will let you know from across the room if something in the machine needs attention. You can further narrow the location of the problem from outside the machine by looking at the LCD display on each door. The door with the problem will have an error code on it. Here is what the lights indicate:

White Light Flashing indicates power and is used as an attraction so customers can easily locate the machine

White Light Solid indicates that it is time to change the bag containing discarded tickets.

Red Light Solid indicates that there is a ticket taker problem. Refer to troubleshooting section of this manual.

Yellow Light Solid indicates that there is a problem with the printer. This is most often seen when a printer need paper. If the printers do not need paper, refer to the troubleshooting section of this manual.

Ticket Taker General

Note: When a door is open for service, the lockout switch kills the 24V to the corresponding door. This keeps the ticket taker from operating for safety. If you must activate the power at the lockout switch for troubleshooting or programming, use caution around the ticket taker belts and cutters. ALWAYS STAY CLEAR OF THE TICKET CUTTERS.

Ticket Taker Overview

The ticket takers are comprised of 4 main parts plus the drive motor:

- 1. Ticket taker main body includes:
 - a. Ticket sense transmitter^①
 - b. Lower urethane roller@



- 2. Ticket taker top assembly includes:
 - a. <u>Upper urethane roller</u>
 - b. <u>Ticket sense opto receiver</u>²
 - c. Notch sense opto receiver 3
 - d. <u>Upper barcode scanner</u>④
 - e. <u>Blue flat springs</u>[©]



- 3. Ticket taker belt assembly includes:
 - a. <u>Ticket transport belts</u>①
 - b. Lower barcode scanner@
 - c. Notch opto transmitter 3



4. Ticket taker cutter assembly



- 5. Drive motor assembly includes:
 - a. Stepper motor ${\rm l}\!\!\!\!\!\!$
 - b. Hall effect sensor^②



Ticket Taker Operation

When ticket is inserted the ticket taker, the ticket sense opto is interrupted which starts the ticket taker drive motor. The urethane rollers take the ticket(s) to the transport belts which carry the ticket(s) to the cutters. There are blue flat springs in the top assembly that push down on the top assembly keeping the ticket down on the transport belts. During the ticket travel over the transport belts, the notch opto senses the center notch of the tickets and the upper and lower side of the ticket is scanned for a barcode. We sense that the motor is turning with a hall effect sensor which is activated by a magnet located in the motor pulley passing over the circuit board. If there is no signal pulsing from the hall effect sensor when the motor is supposed to be running, the power to the motor will be turned off.

Clearing a Ticket Jam

- Loosen <u>captive thumbscrew</u> (1 each side)
- 2. Tilt <u>cutter assembly</u>^② down
- 3. Use <u>brass handle</u>^③ to pull <u>top assembly</u>^④ back and up to remove.
- 4. Remove jammed tickets.
- 5. Carefully replace top assembly.
- 6. Tilt cutter assembly up and refasten thumbscrew





Cutter Assembly Shown Tilted Down



Top Assembly Shown Removed

Troubleshooting Guide

Note: There are (2) power distribution circuit boards mounted to the power supply housing. Each board holds (3) fuses, one 5V & two 12V. If there is a DC power problem, check these fuses.

Ticket Taker will	 Check ticket sense opto pair. <u>LED</u> should come on 	
not start	and power output should pull to ground on the ticket	
	sense opto receiver I when opto is blocked by ticket.	
	Check for good power and ground to ticket sense opto	
	transmitter [®] and ticket sense opto receiver [®] .	
	. Check for good signal to ticket eater pcb3 input from	
	ticket sense opto receiver ¹	
	3. Check all ticket eater motor connections	
Ticket Taker	1. Ticket sense opto path is blocked; check for ticket or	
runs	debris.	
continuously	2. Bad ticket sense opto receiver or transmitter.	

Ticket Taker	Hall effect pcb ^① output not getting to the ticket eater board.		
runs slowly	1. Check that when the motor is running, the <u>LED</u> ² on		
then stops	the hall effect pcb ^① is flashing at least one time per		
-	motor revolution. If the LED does not flash:		
	a. Check to see if the motor pulley ③ is tight on the		
	motor shaft.		
	b. Check the distance of the motor pulley from the		
	hall effect sensor pcb. There is a magnet on		
	the inside of the motor pulley that activates the		
	sensor every revolution. If the pulley is located		
	too far from the sensor pcb, the magnetic		
	strength will be too weak to activate the sensor.		
	c. Check voltage to the hall effect pcb		
	If the LED does flash, check the output of the hall effect		
	sensor pcb all the way to the ticket eater pcb		

Ticket Taker will not count with Ticket inserted	 Check notch count opto pair. <u>LED</u> on <u>notch opto</u> <u>receiver</u>^① should flash as tickets are fed into ticket taker
in any direction	 a. If LED does not flash, check power to the <u>notch opto transmitter</u>[®] and notch opto receiver[®]. b. If LED is always on, something is blocking the opto path or the opto is dirty. 2. If LED does flash, check output of notch count opto all the way to the ticket eater pcb. 3. Check power to barcode pcb's and output all the way back to ticket eater pcb[®].
Ticket Taker counts accurately with barcode only up or only down	 Check power to and output from barcode scanner pcb corresponding to the side that does not work.
Ticket count is intermittent	 To help diagnose the problem, you can, through programming options, change the ticket verification to notch from barcode. If the ticket count becomes accurate, the problem is related to the barcode. If the count is still intermittent, the problem is probably related to the notch opto sensors. 1. Bad tickets with poor printing or out of spec barcode. 2. Clean barcode scanner pcb's and opto notch transmitter and receivers (if this works check pump operation and pneumatic cleaning system for leaks). 3. Check for loose wire connections to barcode scanners or opto notch optos
Single tickets do not count accurately	 Check that tickets travel through the ticket taker at a consistent rate without stopping or slowing dramatically. 1. Check for debris in ticket eater 2. Check for equal spring pressure from the flat springs, make sure they are not bent 3. Check ticket transport belts for tracking, breakage, stretch or extreme wear

Printer does not	1.	Out of paper	
print	2.	. Paper installed backwards. The printer will only print	
		on one side of the paper. See "Installing Printer	
		Paper" section of this manual to verify correct	
		Installation.	
	3.	<u>Paper guide plate</u> up pushed up. This plate needs to	
		printer to print. If you find this in the up position, check	
		to be sure receipt path is clear and that paper can be	
		fed freely through the door.	
	1. Make sure the <u>air pump</u> comes on every 350 tickets.		
Sensors need	1.	Make sure the <u>air pump</u> comes on every 350 tickets.	
Sensors need cleaning often	1. 2.	Make sure the <u>air pump</u> ^① comes on every 350 tickets. Make sure there are no leaks in the main air plumbing	
Sensors need cleaning often	1. 2. 3.	Make sure the <u>air pump</u> ^① comes on every 350 tickets. Make sure there are no leaks in the main air plumbing Make sure there are no leaks in the local air plumbing	
Sensors need cleaning often	1. 2. 3.	Make sure the <u>air pump</u> comes on every 350 tickets. Make sure there are no leaks in the main air plumbing Make sure there are no leaks in the local air plumbing at the doors. Check air hose connections at the <u>air</u>	
Sensors need cleaning often	1. 2. 3.	Make sure the <u>air pump</u> ^① comes on every 350 tickets. Make sure there are no leaks in the main air plumbing Make sure there are no leaks in the local air plumbing at the doors. Check air hose connections at the <u>air</u> <u>valve manifolds</u> ^② .	
Sensors need cleaning often	1. 2. 3. Note: taker	Make sure the <u>air pump</u> ^① comes on every 350 tickets. Make sure there are no leaks in the main air plumbing Make sure there are no leaks in the local air plumbing at the doors. Check air hose connections at the <u>air</u> <u>valve manifolds</u> ^② . If the problem is most often with one particular ticket it is most likely a leak in the air plumbing system local	
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Sensors need cleaning often	1. 2. 3. Note: taker, to the	Make sure the <u>air pump</u> ^① comes on every 350 tickets. Make sure there are no leaks in the main air plumbing Make sure there are no leaks in the local air plumbing at the doors. Check air hose connections at the <u>air</u> <u>valve manifolds</u> ^② . If the problem is most often with one particular ticket it is most likely a leak in the air plumbing system local door with the problem after the <u>air valve</u> ^③ .	
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Sensors need cleaning often	1. 2. 3. Note: taker, to the	Make sure the <u>air pump</u> ^① comes on every 350 tickets. Make sure there are no leaks in the main air plumbing Make sure there are no leaks in the local air plumbing at the doors. Check air hose connections at the <u>air</u> <u>valve manifolds</u> ^② . If the problem is most often with one particular ticket it is most likely a leak in the air plumbing system local door with the problem after the <u>air valve</u> ^③ .	

Programming

PLEASE NOTE: The lockout switch must be activated for all programming functions to work. Be sure to pull the plunger out to activate power to the ticket taker board before programming. Use caution as the ticket taker now has power. If at any time the message "COMM. ERROR" is displayed, there is a problem with communications between the boards, and programming is not possible. If this condition occurs, check to be sure lockout switch is activated, or turn off the machine, check all harness connections, insure that the power switch is on to the Ticket Eater board, and turn on the machine.

1.) Entering Programming Mode To enter program mode, press and hold the <u>PROGRAM button</u>⁽²⁾ located on the back of the Printer Interface Board (the board with the LCD display). After 2 seconds, "PROGRAM MODE" will appear on the LCD Display. At this time, release the button. Momentarily, "PLEASE WAIT will appear while the Totals are retrieved. At this time "TOTAL TICKETS" with the number of tickets taken in will be displayed.



2.) TOTAL TICKETS

The total tickets taken in are displayed. The total will rollover to zero when it reaches 10,000,000. Depressing the PROGRAM button will reset the count to zero, and depressing the <u>NEXT button</u> ^① will display "LAST RECEIPT NUMBER".

3.) LAST RECEIPT NUMBER

The last receipt number printed is displayed. This number automatically increments on every print, and rolls over to 1 after Receipt Number 9999. Depress the PROGRAM button to reset the receipt number, and depress the NEXT button to display "ENTER PROGRAM MODE?"

4.) "ENTER PROGRAM MODE?"

Depressing the PROGRAM button at this time will enter the area of Program Mode where parameters may be changed. Depressing the NEXT button will return the game to Run Mode.

5.) "DATE/TIME"

If Program Mode has been entered, the first setting is the Date and Time. The cursor will be flashing and at the Month position. Depressing the PROGRAM button will step through the month from 01 to 12. Depressing the NEXT button will move the

cursor to the Day position. Enter the Day using the PROGRAM button. Depressing the NEXT button will move the cursor to the Year position. Depressing the PROGRAM button will increment the Year from 00 to 99. Depressing the NEXT button will move the Cursor the Hour position. The time is set in 24-Hour format. Depressing the PROGRAM button will increment the Hour from 00 to 24 Hours. Depressing the NEXT button will move the cursor to the Minutes position. Depressing the PROGRAM button at this time will increment the minutes from 00 to 59. Depressing the NEXT button will go to the next option, "ENTER MACHINE NUMBER"

6.) "ENTER MACHINE NUMBER"

The machine number for each unit can be set from 0 to 99. Depressing the PROGRAM button will increment this value, and depressing the NEXT button will move to the next option, BarCode entry.

7.) "ENTER BARCODE?"

Depressing the PROGRAM button will allow for entry/editing of the 4-Digit Interleaved 2 of 5 barcode present on the ticket for ticket validation. Depressing the NEXT button will skip this step.

8.) "BARCODE: 0000"

This option sets the 4-Digit barcode. The flashing cursor will be over the first digit. Depressing the PROGRAM button will change the value of this digit from 0 to 9 then back to 0. Depressing the NEXT button will move the cursor to the next digit. Continue in this manner until the last digit is entered, then depressing the NEXT button will move to the next option, "TICKET SECURITY".

9.) TICKET SECURITY

This option sets the Level of ticket barcode validation used. The PROGRAM button will change the value from 0 to 2, then back to 0, and the NEXT button will move to the next option, "SAFETY MODE". The Three security levels are as follows:

LEVEL 0 – Notch Only Validation, no Barcode required LEVEL 1 - Barcode Validation, Standard (Recommended) LEVEL 2 – Barcode Validation, HIGH Security

10.) SAFETY MODE

This option sets the Safety Level of the ticket eaters. Off is the normal mode and is recommended. ON lessens the power of the ticket eaters. Depressing the PROGRAM button changes the setting, and depressing the NEXT button moves to the next option, "RE-ENTER PROGRAM MODE?"

11.)RE-ENTER PROGRAM MODE?

This option give you the opportunity to go through the programming settings again. Depressing the PROGRAM button will re-enter the Program Mode at the beginning, and depressing the NEXT button will leave Program Mode, and return to Run Mode.

ERROR CODES

The LCD Display on the Ticket Station will show common error codes to help in troubleshooting. There are two Types of errors; those associated with the Ticket Eater and those associated with the Printer. The LCD Display will show which type of error it is, "TICKET ERROR" or "PRINTER ERROR" along with the associated error number.

The Errors are as follows:

1.) Ticket Errors: ERROR 1: Ticket Jam

2.) Printer Errors:

ERROR 1: Printer Platen Open

- ERROR 2: Printer Out Of Paper
- ERROR 3: Printer Head Temperature Abnormal
- ERROR 4: Printer Cutter Cover Open (usually indicates a Paper Jam)
- ERROR 5: Printer Communications Failure

NOTE:

If one of Errors 1 through 4 occur in the middle of a receipt print, the Printer may default to ERROR 5. Insure that all of the possible errors are checked before assuming a communications failure.

If the Printer is in the middle of printing the receipt and runs out of paper, it will retain the information for that receipt AS LONG AS POWER IS NOT TURNED OFF TO THE PRINTER. Reload the paper without turning the printer off and it will complete the printing of the last receipt.

Parts List

87-ASM-24 Ticket Taker	87-ASM-25 Ticket Taker Top
87-ASM-26	87-ASM-27
Ticket Taker Belt	Ticket Taker
Assy.	Body
87-ASM-28 Ticket Cutter	87-ASM-45 Ticket Taker Stepper Motor
87-ASM-46	PCB-020
Solenoid	Opto Transmitter
Valve Assy.	Single
PCB-021	PCB-022
Opto Receiver	Barcode
Single	Reader
PCB-026 Hall Effect Sensor	PCB-027 Printer Driver Board

PCB-028 Stepper driver single white series		87-SHM-06 Spring Tab Bent	×.
ELM-021 Lockout Switch		ELM-022 Tower Light, 3 color	
PCB-029 5 digit led display	EEEEE.	ELM-023 Printer, Thermal	
MOT-004 Air Pump			

12 PIN CONNECTOR DOOR 1		
12 VOLTS COMMON 22 GA YELLOW		112A
11 GIND SIGINAL 22 GA BLACK 10 12 VOLTS 18 GA YELLOW		2 GND 2
22 GA YELLOW/GREEN		3 5V 3 2
7 GREEN WHITE 6 WHITE/BLACK/RED		× 4 12A
5 GND 18 GA BLACK		
22 GA RED 5 VOLTS GND 18 GA BLACK		
1 WHITE/BLK/GREEN		GND C C
58-5151		GND GND
N CONNECTOR DOOR 2		10 12B
12 VOLTS COMMON 22 GA YELLOW		11 12A(12)(11)
12 12 12 12 12 12 12 12 12 12		× ¹² 12B
9 22 GA YELLOW/GREEN		
		4 DIN MOLEV EEMALE
6 GND 18 GA BLACK		
4 22 GA RED		
2 GND 18 GA BLACK 2 WHITE/BLK/GREEN		YELLOW 3
	ODANCE	
24 VOLTS 18 GA ORANGE/BLK	OKANGE	24 VOLT POWER 1
SW-SPST		
PIN CONNECTOR DOOR 3		
12 VOLTS COMMON 22 GA YELLOW/WHITE		
11 12 VOLTS 18 GA YELLOW/WHITE		
2 12 VOLTS COMMON 22 GA YELLOW/WHITE		
7 WHITE/BLACK/RED		
GND 18 GA BLACK/WHITE		
4 22 GA 5 VOLTS RED/WHITE GND 18 GA BLACK/WHITE	┥────┤┤──┥ │ │	
2 WHITE/BLK/GREEN		
24 VOLIS 18 GA ORANGE/BLK		
SW-SPS1		
12 PIN CONNECTOR DOOR 4		
12 VOLTS COMMON 22 GA YELLOW/WHITE		
12 22 GA SIGNAL GND BLACK/WHITE 11 12 VOLTS 18 GA YELLOW/WHITE		
6 GND 18 GA BLACK/WHITE		
4 24 VOLIS 18 GA ORANGE/WHITE 3 22 GA RED/WHITE		
2 GND 18 GA BLACK/WHITE 2 WHITE/BLK/GREEN		
	FULL TICKET BAG	
24 VOLTS 18 GA ORANGE/BLK	ANGE/WHITE	
SW-SPST	SW-SPST	
	\checkmark	





