Welcome to your Pulse Driven Printer Interface Board Manual

The PDPI Board's unique features include the ability to:

Track output pulses normally directed to "Credits In" mechanical meter. Track and print output pulses normally directed to "Clear Score" meter. Simple conversion of points to dollars through onboard DIP switch. Quick & easy user setup of time/date and location specific information -

setup many machines in minutes, not hours.

Audit ticket function prints receipt of accumulated pulses with time/date, machine #, and location information.

Unique preprogrammed disclaimers can be requested.

Can be used with optional dual copy printer for additional security. Compact design for easy attachment directly to Citizen printer.

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The PDPI Board is designed to be used only for legal purposes as determined by the authorities in the location where this piece will be used.













To Set the DIP Switch on the Citizen iDP3541 Printer

- 1) Make sure the printer is turned off.
- 2) Remove the front cover from the printer.
- 3) With a small object, like a screwdriver or ball point pen, gently move the DIP switch either left or right. Make sure the switch is <u>completely</u> in the "on" or "off" position.
- 4) Replace the front cover
- 5) Turn the printer on.

NOTE: If at any time the DIP switch settings are changed and the printer has not been turned off, and then on, the printer will NOT register the new settings.







SETTING the DIP SWITCHES on your PDPI BOARD

DIP Switch Settings

· · · · · · · · · · · · · · · · · · ·	PDPI Board version 2 or B

Switch 1	Always Off		
Switch 2	Always Off		
Switch 3	Daylight Savings Mode - On		
Switch 4	Print Disclaimer - On		
	No Disclaimer - Off		
Switch 5	Print in \$ - On		
	Print Points - Off		
Switch 6	1 pulse = \$1 - On		
	Anything else - Off		
Switch 7 & 8	Switch 6 must be off for	the following	
	settings to work:		
	1 credit = 1 cent	Off & Off	
	1 credit = 5 cents	Off & On	
	1 credit = 10 cents	On & Off	
	1 credit = 25 cents	On & On	

DIP switch settings MUST be set prior to turning on power to the PDPI Board otherwise they will not be read properly.

Mounting the PDPI Board to your Printer

- 1) Attach the connecting harness to the PDPI Board prior to attaching the PDPI Board to the printer.
- 2) Fit the 25 pin connector on the Board into the mating 25 pin connector on the back of the printer The component side of the PDPI Board will face away from the printer.









MOUNTING the PRINTER to the CABINET



Included in your PDPI Kit is a mounting bracket and two screws which can be used to help hold your Citizen printer in place when it is mounted in your cabinet.

Mounting your Printer

- 1) Position your printer in your cabinet.
- 2) Hook the small bracket over the back, bottom edge of the printer, next to the 25 pin connector.

If positioned properly, the two holes in the small bracket can be screwed into the shelf holding the printer.

The bracket is NOT designed to support the weight of the printer and the printer should be removed prior to shipping or moving the cabinet.





A face plate is included in your PDPI Kit. This face plate mounts to the outside of your game cabinet and provides an opening through which your receipts are dispensed. The thread size of the pem bolts are 10-32. Four nuts are included (either mounted to the face plate bolts or in the bag with your mounting hardware).



CHANGING the RIBBON on your PRINTER







- (6) Place the lower portion of the ribbon's case in the mounting brackets while inserting the ribbon between the print head and paper shield. The ribbon will "click" into place.
- (7) Turn the ribbon's knob clockwise to remove any slack in the ribbon.
- (8) Snap the cutter mechanism back into place, replace the printer cover and restore power.











- (4) Cut the paper so the insertion end is straight across.
- (5) Insert the paper into the paper insertion inlet until it stops.
- (6) With power to the printer, press the select (SEL) button until the SEL light goes off. Hold the paper in place and press the line feed (LF) button (which advances the paper out the front of the printer.)
- (7) Once the paper is through, press the select button again until the SEL light shines steadily.



MORE about RECEIPT TICKETS

Printing Tickets

When connected to your game, receipt tickets will begin to print out immediately after the out meter stops incrementing. If there is a large number of credits to be registered by the out meter, it may take a while before your receipt ticket begins to print. This delay is unavoidable.

Cutting Tickets

The Citizen Printer is capable of cutting the ticket receipt in two different ways.

Full Cut - means the receipt is cut the entire width of the paper, except at one point where it is still attached. The receipt can be pulled off with very little force. This reduces the occurrance of paper jams.

Complete Cut - means the receipt is cut the entire width of the paper and is completely detached from the rest of the paper roll.

Receipt Tickets, Audit Tickets and Clear Audit Tickets

Three different types of tickets are printed from the PDPI Board.

The receipt ticket prints the results of the out meter.

The audit ticket prints the totals of both the in and out meters since last cleared. The print audit ticket will appear only when you press the Print Audit Button.

The clear audit ticket prints after the Clear Audit Button has been pressed. Pressing the clear audit button resets the in and out meter tallies to zero. The ticket shows these numbers have been cleared.

If you ever have any problems where you need to determine if power is being supplied to the PDPI Board, print an audit ticket.



OPTIONAL SOFTWARE for use with your PDPI BOARD

Optional software is required to program information which you would like to appear on your printed tickets. Your distributor may program location and disclaimer information for you before you purchase your board, so this software may not be necessary for you.

Required to program the PDPI Board:

PDPI Programming Software Kit IBM compatible computer (Desktop or Laptop) Serial/COMM Port DOS 5.0 or greater

The PDPI Programming Software Kit is very easy to use. With it you can program your PDPI Board in less than a minute.



TROUBLESHOOTING				
PROBLEM	SOLUTION			
Tickets take a long time to print out.	Your PDPI Board is not broken. See the section in this manual called "More about Receipt Tickets"			
Receipt Tickets won't print out.	First, try to print an audit ticket to determine if the PDPI Board is communicating with the printer. If an audit ticket prints, then the wire in position 2 (Blue wire) on the connect- ing harness is not connected to the out meter pulse wire from the game board.			
Nothing prints out.	Make sure the printer is turned on. Make sure you have power to the PDPI Board. Make sure your PDPI Board is fully connected to the printer. Make sure your printer is selected (see section in this manual called "Making Sure your Printer is Ready to Print")			
The printer keeps printing tickets and you can't get it to stop.	Clear the buffer on the Citizen Printer: Turn the printer off. While holding down both the SEL and LF buttons, turn the printer back on. A test ticket will print showing the buffer is clear.			
Intermittent problem where tickets stop printing.	Your PDPI Board is possibly ground starved. Connect the ground wire to the PDPI as close to the power supply as possible.			
A ticket prints when money is put <u>into</u> the game.	The meters must have diodes with them. The diodes can be inside the meters (meters with one red wire and one black wire usually have a diode) or built into the harness. Call your distributor for proper installation of diodes.			
The words on the ticket come out scrambled or all on one line.	Check the DIP Switches on the printer (see the section in this manual called "Setting the DIP Switches on your Printer").			
"36" or "?6"prints instead of the time, date or proper totals.	The Dallas chip is either loose or bad. Try reseating this chip or call your distributor for replacement.			



TROUBLESHOOTING cont'd

PROBLEM	SOLUTION
Ink smudges on the paper.	Ribbon is not correctly positioned between the print head and the paper shield (see the section in this manual called "Changing the Ribbon on your Pinter").
PDPI board does not work with an Epson printer.	The PDPI board was not designed to work with an Epson, but you can use your Epson printer by obtaining a specially programmed PDPI chip.
One of the Citizen printer's DIP Switch banks has more than 8 switches.	The printer is equipped with different internal programming than the standard Citizen iDP3541 and requires a different PDPI programming chip in order to function correctly. Again, the standard PDPI V.2 chip will not work. Once you have the correct version of PDPI programming chip, the DIP Switch settings for the Citizen printer are: Bank 1: Sw 1 OFF, others ON Bank 2: Sw 1,2,3,6,7,8 ON

