

Ticket *Flex* Maximizer™

Model TFB1-MT

Ticket Multiplier/Divider with Mercy Ticket Input

Installation & Operation Instructions

A Smart Ticket Dispenser Controller allows flexibility in Ticket Payout!

- ◆ Increase or Decrease the Ticket Payout
 - ◆ Mercy Ticket Triggered by Coin Pulse
 - ◆ Easy Plug-In installation
 - ◆ Ticket Meter Output
- ◆ No Tickets of Ticket Jam Indicator
 - ◆ Ticket Dispenser Test Mode
 - ◆ Zero Tickets Mode
 - ◆ Small size – fits everywhere

Operation Modes

MULTIPLY

Adjust the dip switch to multiply tickets by 1 to 15.

DIVIDE

Adjust the dip switch to divide tickets by 1 to 15.

MERCY TICKET

A mercy ticket can be triggered by a coin/credit pulse connected to the mercy ticket opto isolated input. Connect Pin 1 and 4 of the JST12 connector across the coin meter (pin 4 is +5V or +12V side of the meter) or connect a coin switch via which a ground pulse is connected to pin 1 of the JST12 connector. Pin 4 of the JST12 connector must be connected to +5V if the coin switch operates 5V logic input of the game board.

DISPENSER TEST

Switch the machine OFF, adjust dip switches 1 to 6 for Dispenser Test and switch the machine ON. 5 tickets will be dispensed and the PCB LED and an external light (if connected) will flash 2x at successful completion of the test. The LED and the external light will stay "ON" if there is an ERROR!

ZERO TICKETS MODE

Zero Tickets Mode allows operation of ticket redemption machines without dispensing tickets.

CLEARING ERROR

An error will occur when the machine runs out of tickets or the ticket dispenser jams or the ticket notch opto sensor is not functioning. The PCB LED and the external light (if connected) will stay ON. Clean the opto sensor of the ticket dispenser with a paint brush, remove jams, reload tickets. The unit will automatically reset and resume normal operation.

LED or External Light

On power up or after clearing ERROR the number of flashes indicate selected mode.

Number of flashes	MODE
1	DISPENSER TEST
2	DIVIDER
3	MULTIPLIER

Dip Switch

Adjust dip switches while the machine is switched off!

ADJUST TICKETS

Multiply/Divide by	Sw1	Sw2	Sw3	Sw4
1	OFF	ON	ON	ON
2	ON	OFF	ON	ON
3	OFF	OFF	ON	ON
4	ON	ON	OFF	ON
5	OFF	ON	OFF	ON
6	ON	OFF	OFF	ON
7	OFF	OFF	OFF	ON
8	ON	ON	ON	OFF
9	OFF	ON	ON	OFF
10	ON	OFF	ON	OFF
11	OFF	OFF	ON	OFF
12	ON	ON	OFF	OFF
13	OFF	ON	OFF	OFF
14	ON	OFF	OFF	OFF
15	OFF	OFF	OFF	OFF

SET MODE

Not Used	Sw5
MUST STAY OFF	OFF

Divide/Multiply	Sw6
Divide	OFF
Multiply	ON

Zero Tickets					
Sw1	Sw2	Sw3	Sw4	Sw5	Sw6
ON	ON	ON	ON	OFF	ON

Dispenser Test					
Sw1	Sw2	Sw3	Sw4	Sw5	Sw6
ON	ON	ON	ON	OFF	OFF



On-Line Technical Support at:
www.ticketflex.com

Setting the Input and Output to suit the ticket dispenser.

The Ticketflex Maximizer is supplied preset for the Deltronic 1275, Entropy TD963CR or compatible Ticket dispenser.
Dip Sw 7 = ON, Dip Sw 8 = OFF, JUMPER = DOWN

The input and output can be set independently to suit other styles of Ticket Dispensers and various machines.

Dip Switch

Input	Sw7
Pulse Operation	OFF
Continuous Operation	ON

Output	Sw8
Pulse Operation	ON
Continuous Operation	OFF

Continuous Input Operation (Deltronic 1275 compatible)

The ticket drive input (pin 3 of the 8 Way JST connector) must be driven "high" to initiate ticket dispensing. The Ticketflex Maximizer will output ticket notch pulses for the host game (pin 1 of the 8 Way JST connector).

Pulse Input Operation (Deltronic DL 4 compatible)

In the Pulse Input Operation the ticket drive input must be pulsed "low" to initiate ticket dispensing. The notch output is not used.

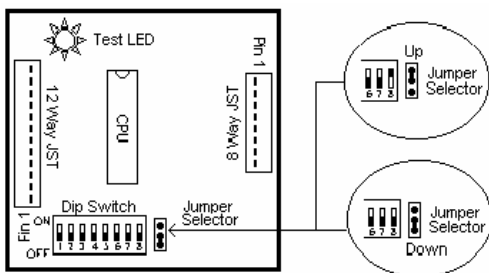
Continuous Output Operation (Deltronic 1275 compatible)

The ticket drive output (pin 2 of the 8 Way JST connector) is driven "high" to initiate ticket dispensing. The ticket notch feedback from the dispenser is required. The Jumper Selector must be "Down".

Pulse Output Operation (Deltronic DL 4 compatible)

The ticket drive output is pulsed "low" to initiate ticket dispensing (Jumper Selector must be "UP"). The ticket notch feedback is not utilized. The ticket dispenser will dispense one ticket for each pulse received.

Jumper Selector (Inverts Drive Output Voltage Level)



"UP" for active LOW Open Collector Ticket Drive Output (Used with DL4 Ticket Dispenser).

'DOWN' for active HIGH Ticket Drive Output. (Used with DL1275 Ticket Dispenser).

Important Notes

- To minimize the likelihood of damage by electrostatic discharge it is recommended that the ticket dispenser body is connected to the protection earth.
- The rating of the 12V globe for the external light is 10W Max.
- The standard harness supplied with the Ticketflex Maximizer provides all the required connections for the Multiplier or Divider mode. All other connections (e.g. Ticket Meter & External Light) are optional.

The Standard Harness Supplied with the Maximizer

(For connection to Deltronic 1275 or Entropy TD-963CR Ticket Dispenser).

4 WAY UTILUX (MALE) CONNECTOR
Connected to the ticket dispenser.

PIN	Description	Wire
1	Notch Input	Blue
2	GND	Black
3	Tick. Drive Output	White
4	+12V	Orange

4 WAY UTILUX (FEMALE) CONNECTOR
Connected to the machine.

PIN	Description	Wire
1	Notch Output	Blue
2	GND	Black
3	Game Drive Input	White
4	+12V	Orange

12 WAY JST CONNECTOR (PCB)

PIN	Description
1	- Mercy Tck Input
2	- Mercy Tck Input
3	GND (Out)
4	Mercy Tck Input +5 to 30V
5	+12 V (Out)
6	+12 V (Out)
7	Lamp Output
8	Lamp Output
9	Ticket Meter Output
10	- Opto Ticket Drive
11	+Opto Ticket Dr 5-30V
12	+Opto Ticket Dr 14-60V

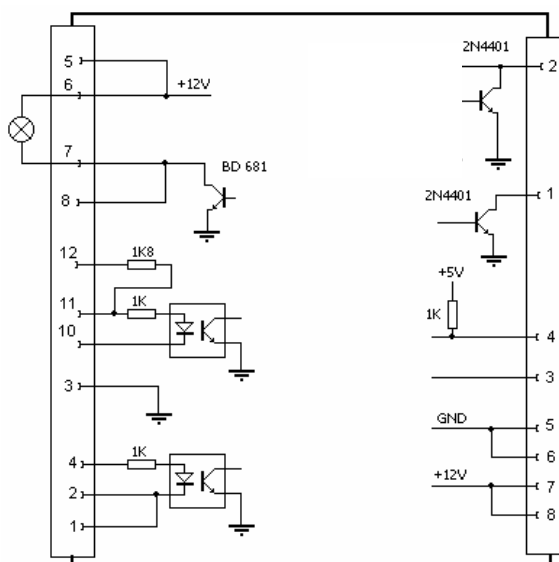
Ticket Meter

Connect Ticket Meter between pin 5 and 9 of JST 12 connector.

External Light

Connect External Light between pin 6 and 7 of JST 12 connector.

Ticketflex PCB Connector Pinout



8 WAY JST CONNECTOR (PCB)

PIN	Description
1	Notch Output
2	Tick. Drive Output
3	Tick. Drive Input
4	Tick. Notch Input
5	GND Out
6	GND In
7	+12V Out
8	+12V In (9 to14V)

For On-Line Help and application notes visit:
www.ticketflex.com

TicketFLEX™
Innovation Search