"Quick Release" Ticket Dispenser Manual

The "Quick Release" Ticket Dispenser

- Quick release face plate

- Bottom metal ticket guide

- Foolproof braking system

- Optical sensor dust cover
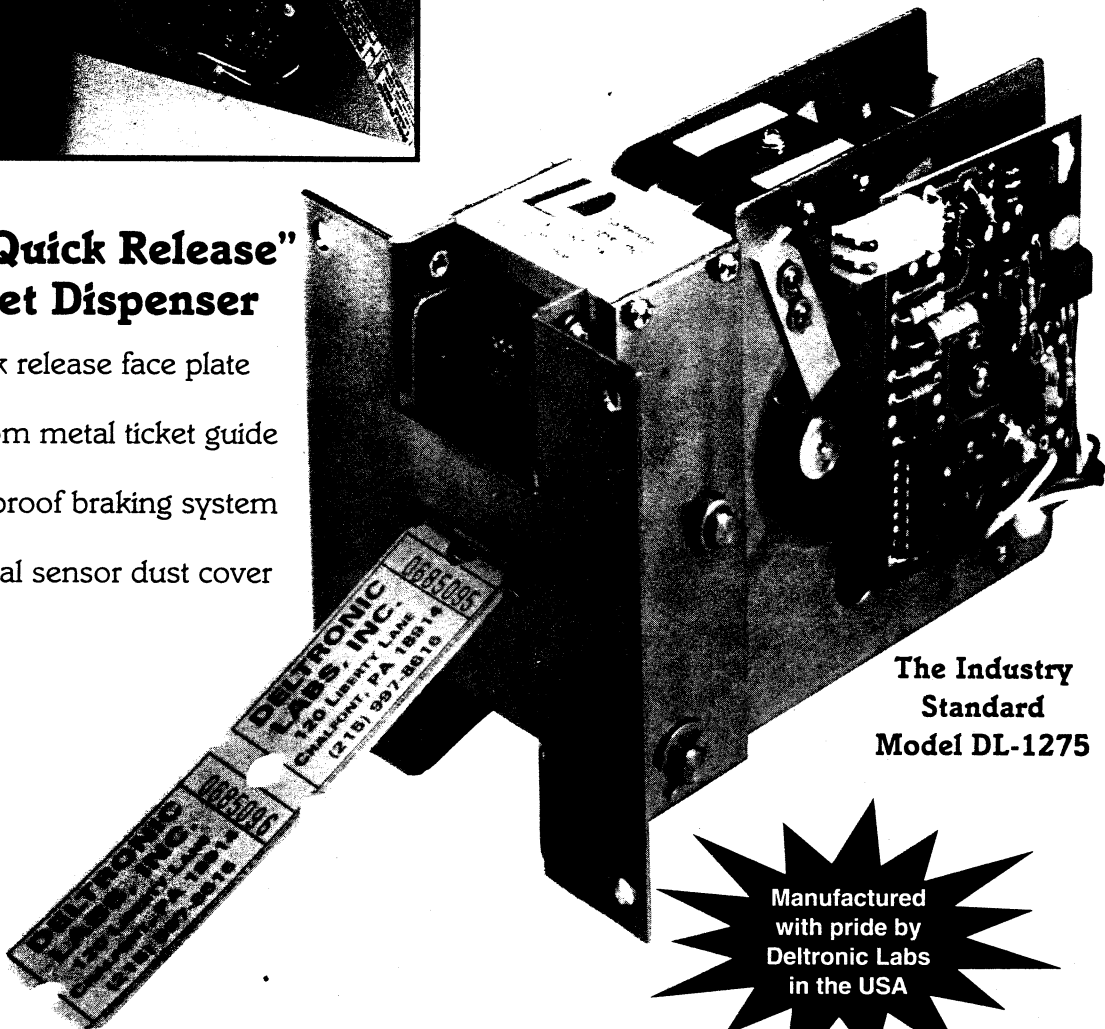
The Industry
Standard
Model DL-1275

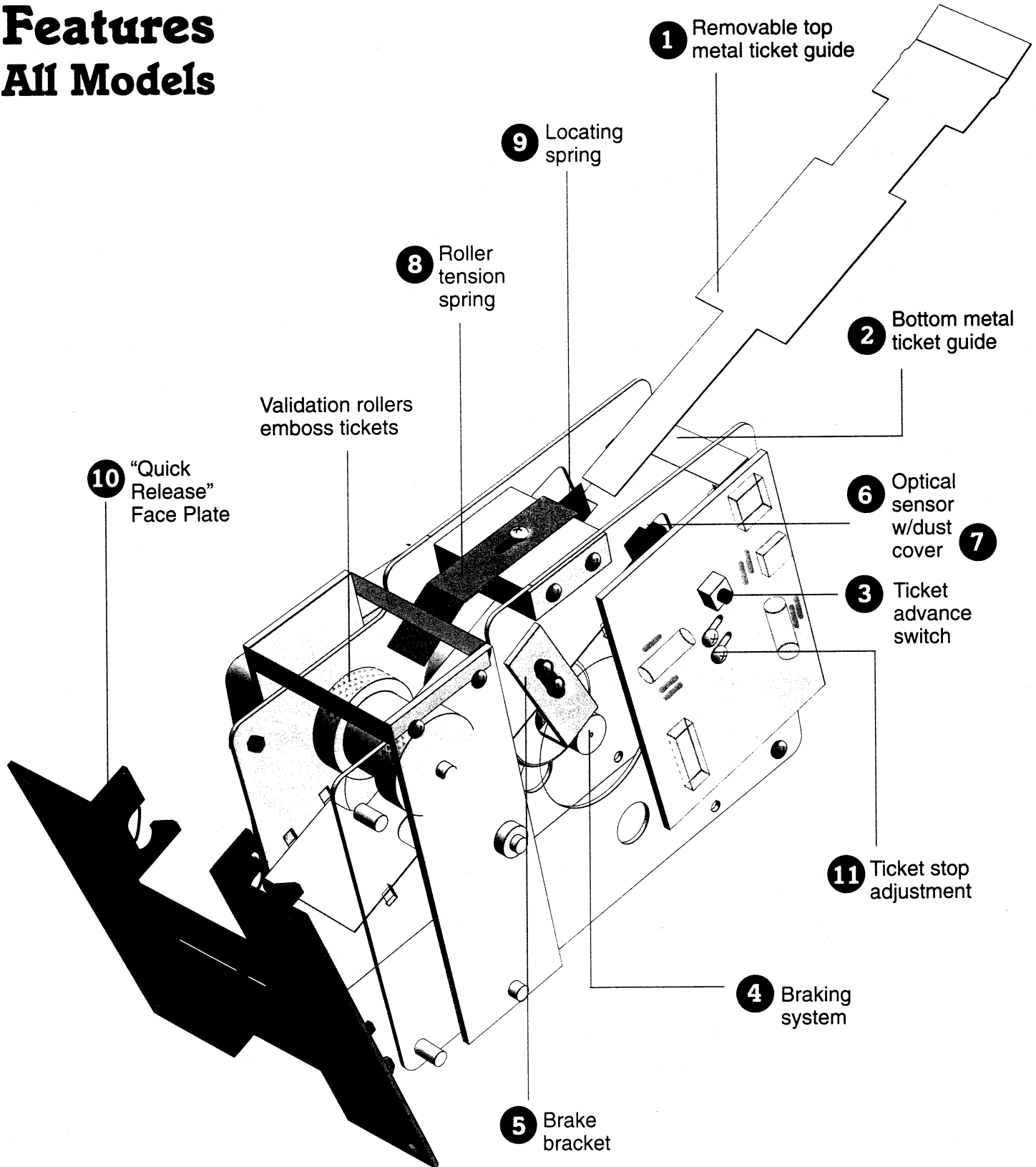Manufactured
with pride by
Deltronic Labs
in the USA

Another quality product from Deltronic Labs . . . the industry leader in ticket dispensers.

Deltronic Labs, Inc. 120 Liberty Lane, Chalfont, PA 18914

215-997-8616 • FAX# 215-997-9506 • Web Site: www.deltroniclabs.com

"Quick Release" Ticket Dispenser Features
All Models

1 Removable top metal ticket guide

9 Locating spring

8 Roller tension spring

Validation rollers emboss tickets

10 "Quick Release" Face Plate

2 Bottom metal ticket guide

6 Optical sensor w/dust cover **7**

3 Ticket advance switch

11 Ticket stop adjustment

4 Braking system

5 Brake bracket

❶ Top Metal Ticket Guide
For servicing, the top metal ticket guide can be removed and replaced. With unit facing you, gently spread side plates with thumb and index finger. Tilt guide to right at 45° angle and snap left side tab out and pull straight back. When replacing, simply reverse these steps. Note there is no need to spread side plates while replacing guide. Tilt to right and insert right tab first.
Note: When PCB has opto-sensor cover, guide is inserted over sensor then directed down to right. Be sure guide is **BELOW** brake bracket screws when replaced.

❷ Bottom Metal Ticket Guide
The longer, more durable ticket guide extends through the face plate allowing for better guidance plus a larger opening in the face plate prevents curled tickets from catching.

❸ Loading of tickets with ticket advance switch
Tickets are inserted in the rear of machine between the top and bottom ticket guides and pushed forward to the rollers. If needed, gently push the locating spring (9) away from the ticket guides. Then push the ticket advance switch until you see the edge of first ticket.

❹ Braking system
Our impressive new braking system eliminates brake slippage allowing foolproof, accurate dispensing. The new design also reduces wear and tear on the dispenser.

❺ Brake bracket
The brake is easily accessible and can be adjusted to engage immediately when ticket is pulled. (Minimum of 1/8" from brake wheel.)

❻ Opto-Sensor
Included as part of the controller is an opto-electronic beam sensor which detects the notch between tickets. The output of the ticket sensing circuitry is an open collector transistor.

❼ Opto-Sensor Dust Cover
In addition, an optical sensor dust cover is also included to eliminate the possibility of ticket dust accumulating on the optical sensor. This increases the accuracy of the ticket count and reduces maintenance.

❽ Roller Tension Spring
The roller tension springs keep constant tension on tickets which insures proper delivery and prevents the tickets from being "pulled through" when the dispenser is idle. To increase the tension, loosen the screw and move the spring forward. Tension is correctly adjusted when tickets cannot be pulled from the dispenser and validation rollers lightly emboss the tickets.

❾ Locating Spring
The ticket guide spring insures that the notches in the tickets pass through the opto-sensor. To decrease tension, loosen the screw and move the outer tension spring up. This changes the tension on the inner spring. The tickets should be snug between the spring and the side plate but not deformed by the excess tension. The spring is adjusted at the factory for 1-5/32" wide tickets and positioned 1/8" from ticket guides.

❿ "Quick Release" Face Plate
The dynamic new design allows the ticket dispenser to "quickly release" from its face plate on your cabinet or ticket door. This can be done manually and no tools are needed. This gives you complete access to the front of the rollers and to the ticket guides. Plus you can "snap out" one ticket dispenser and immediately replace it with another in just seconds.

⓫ Ticket Stop Adjustment
The ticket stop adjustment allows you to position the tickets while the machine is off. The tickets should protrude through the slot at least 1/16". The ticket dispenser PC board is mounted on spacer with two screws with washers in two slotted holes. Loosening the screws and moving the board forward will allow the tickets to stop further out beyond the edge of the slot.

Dispenser Specifications

The quick release ticket dispenser greatly improves serviceability and reduces maintenance. Now standard on all Deltronic Labs Ticket Dispensers.
- Low voltage operations, only 12V DC
- Solid state output allows interfacing with electronic games
- Compact size, only 3-1/8" W x 4" H x 5-1/2" L
- Weight: 2-1/4 lbs.
- Validation "diamond" mark identifies tickets that have been dispensed.
- Adjustable ticket stop
- Dispenses 2"L x 1-5/32"W tickets
- One year warranty
- Standard face plate: 4"H x 3-3/4"W
- Narrow face plate: 4"H x 3-1/8"W

Control Board
DL-1275 with 12V meter output

This dispenser is controlled by the game software. The game turns on the dispenser with a logic high signal and monitors a return notch signal from the ticket dispenser to turn it off. It will dispense as many tickets as game options allow.

	MIN.	TYP.	MAX.
MOTOR SUPPLY - V	11 V	12 V	13 V
I (START)	1.3 A	1.5 A	1.7 A
I (RUN)	—	—	.85 A
I (STANDBY	—	—	30 MA
MOTOR ENABLE ON - V	2.5 V	—	+12 V
I	250 UA	—	2.5 MA
MOTOR ENABLE OFF - V	—	—	1.0 V
I	—	—	0 MA
TICKET NOTCH - I SINK	—	—	50 MA
V PULL-UP	—	—	30 V

Transistors Q1 & Q2 are D40K1 (Rev 1-4) or TIP122 (Rev 5 & 6)
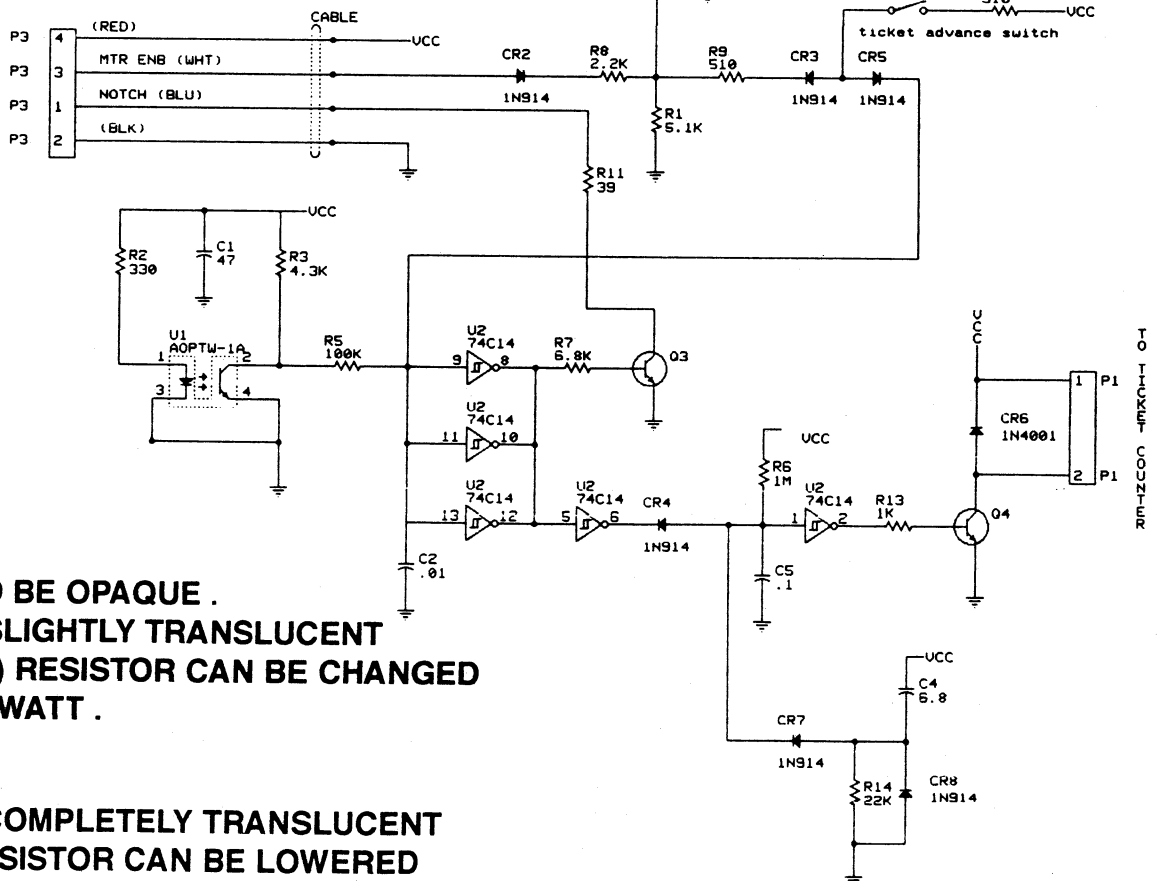
Transistors Q3 & Q4 are 2N2222 or 2N4401

Diodes CR2, CR3 & CR4 are 1N457A or 1N914
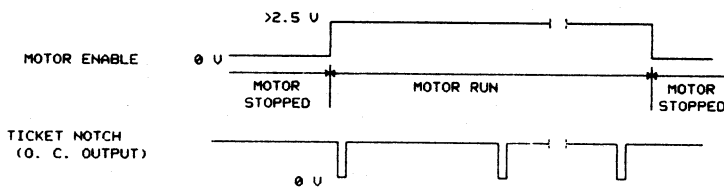
INTERFACE SPECIFICATIONS

Connector is a Molex #03092041

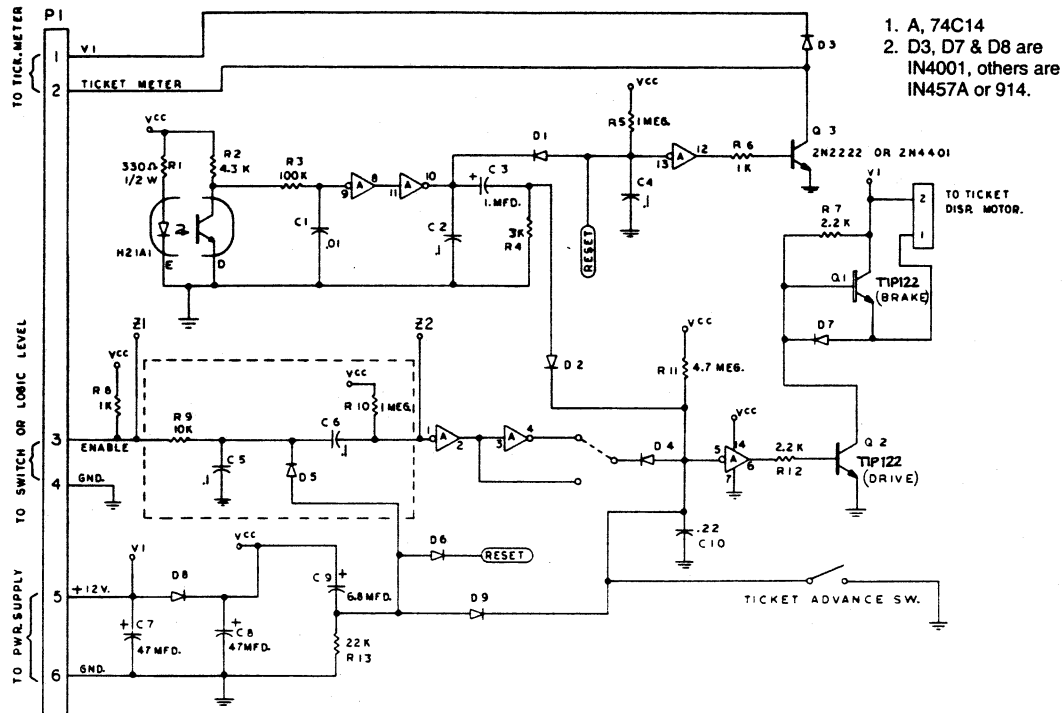Connector is a Molex #03092041

NOTE

**TICKETS SHOULD BE OPAQUE .
IF TICKETS ARE SLIGHTLY TRANSLUCENT
THE 330 ohm (R-2) RESISTOR CAN BE CHANGED
TO A 680 ohm 1/2 WATT .**

NOTE

**IF TICKETS ARE COMPLETELY TRANSLUCENT
THE 4.3K (R-3) RESISTOR CAN BE LOWERED
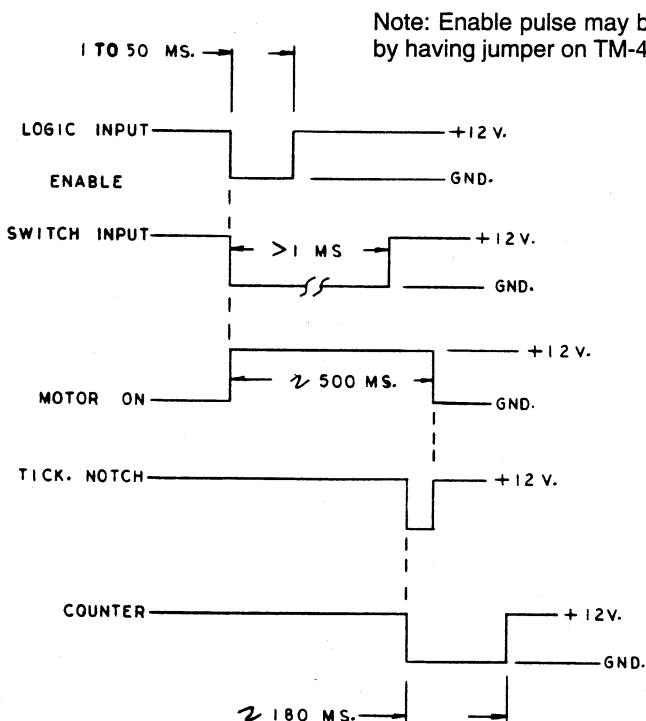IN VALUE . (I e. 2.2K)**

Control Board
Models DL-4-S-S DL-4-P-S

1. A, 74C14
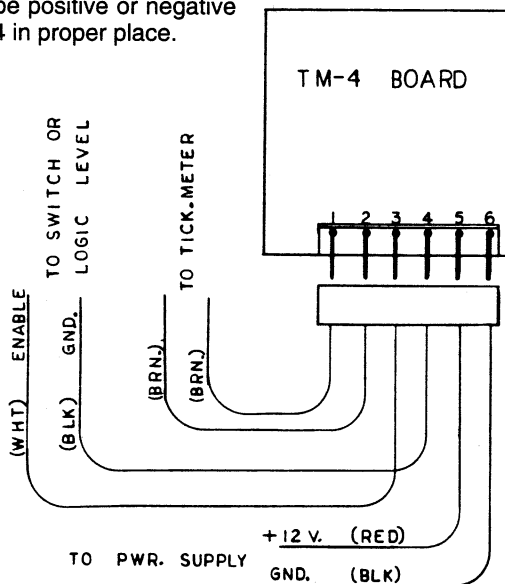2. D3, D7 & D8 are IN4001, others are IN457A or 914.

Model #DL-4-S-S, SW Input
Model #DL-4-P-S, Logic Input.

Note: With logic input components and dotted lines are omitted and Z1 is jumpered to Z2.

Note: Enable pulse may be positive or negative by having jumper on TM-4 in proper place.

Note: On PCB TM-4, Rev. 1 & 2, Q1 and Q2 transistors are D40K1or equivalent.

**Model #DL-4-S-S**
Model #DL-4-P-S

Ticket Dispenser Assembly

Details of Parts

F/N	Qty	Deltronic Labs P/N	Name
11	1	SHFT-IDLRLR/TD/	IDL. ROLLER SHAFT
12	1	RM-SFTMTR/TD/	MOTOR PIVOT SHAFT
13	1	SPAC PIVBLK/TD/4HOL	PIVOT BRACKET SPAC
14	1	RM-SPCPB/TD/	SPACER BLOCK
15	2	RM-RLRIDL/TD/VALD	IDLER ROLLER
16	1	RM-RLRDRV/TD/VALD	DRIVE ROLLER
17	2	SPRG-TENSN/TD/	TENSION SPRING
18	2	RM-BKTPVT/TD	MTR PIVOT BKT.
19	1	RM-PANLFT/TD/NOPM	FRONT PANEL
20	1	RM-WHLBRK/TD/	BRAKE WHEEL
21	1	SPRG-LOCAT/TD/	LOCATING SPRING
22	1	RM-BKTBRK/TD/	BRAKE BRACKET
23	1	RM-BKTTUB/TD/3/8	URETHANE BRAKE
24	1	PCBD-1275/TD/ *	PC BOARD
25	1	RM MOTOR/TD/	MOTOR
26	2	RM-PLATFR/TD	FRAME PLATE
27	1	RM-CONN2P/TE/20G	2-PIN FEMALE CONN.
28	4	BRNG-F312/TT/BRASS	BUSHING
29	1	SPAC-PCBD/TD/	P.C. BOARD SPACER
30	1	SPAC/HEX/TD/1-1/4	HEX SPACER 1-1/4"
31	1	RM .1M/TT/50V	.IMFD 50V
32	1	SPAC-HEX/TD/1/4"	STAND OFF
33	1	GUID-BOTTOM/TD/MET	LOWER GUIDE MET.
34	4	RING-E25RT/TT/	RETAINING RING
35	1	GUID-TOP/TD/MET	TOP GUIDE METAL
36	2	PULY-SP212/TE/NYLN **	SPACER WASHER
37	2	SPRG FRONTP/TD/	SPRING FRONT-PLATE
38	4	RM-PEMNUT/TD/FRPL	PEMNUT FRAME
39	2	RM-PEMNUT/TD/FRPN	PEMNUT FRONT
40	1	COVR-H21A/TD/OPTO	DUST COVER
41	1	CONN MOLEX/TD/4PM	4 WIRE MOLEX MA.
42	1	RM-LABEL/TD/ALUM.	LABEL ALUMINUM
43		WIRE-REDBLK/TD/MOTOR	
44	2	SPAC-PIVBRK/TD/HEX***	SPACER 1/4" HEX.

* Order by Model #

** Note: F/N #36 replaces .032 and .093 spacer washers.

*** Note: F/N #44 replaces large spacer block.
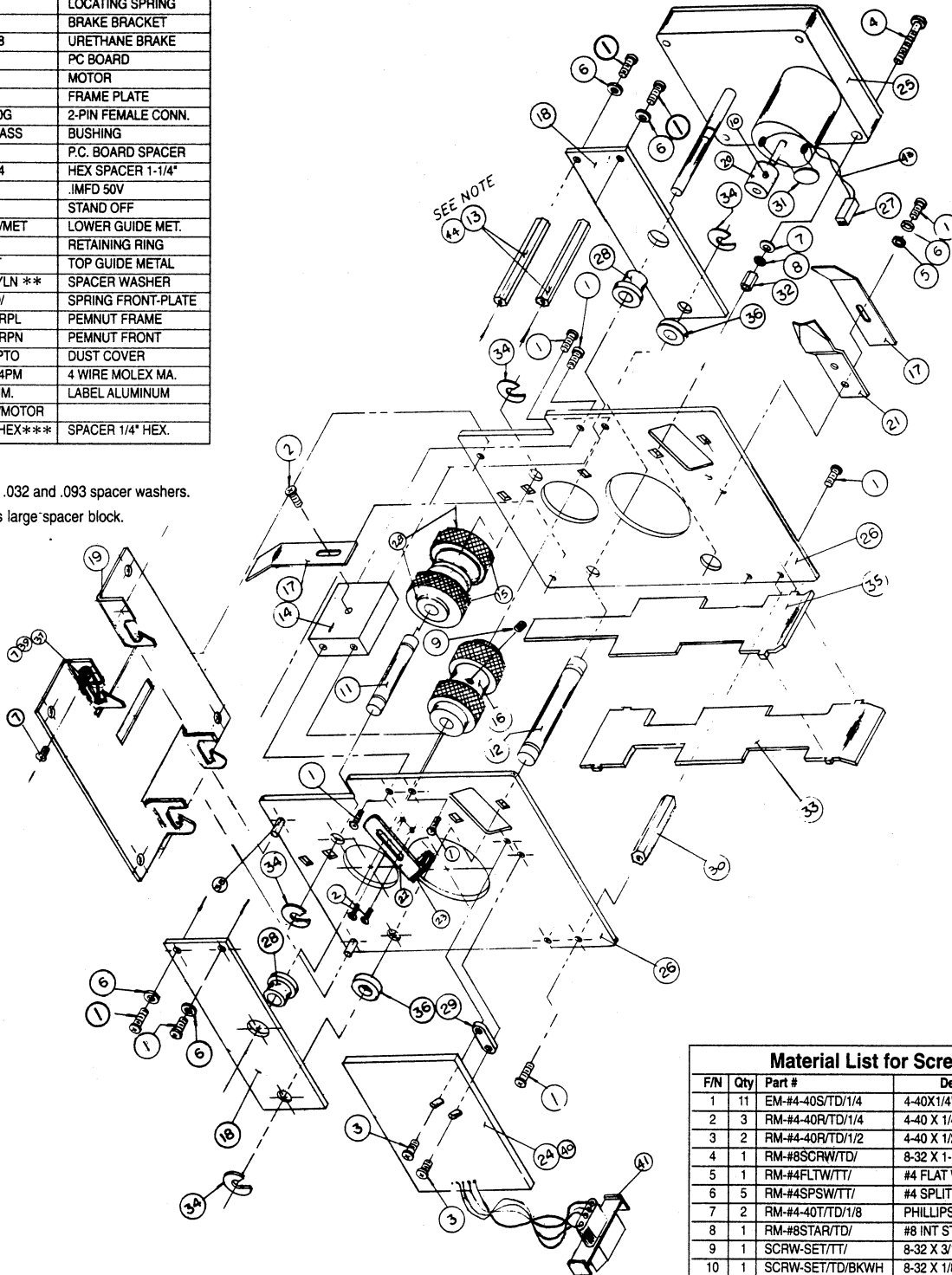
Material List for Screws

F/N	Qty	Part #	Description
1	11	EM-#4-40S/TD/1/4	4-40X1/4" SCREW
2	3	RM-#4-40R/TD/1/4	4-40 X 1/4" WASHER HEAD
3	2	RM-#4-40R/TD/1/2	4-40 X 1/2" WASHER HEAD
4	1	RM-#8SCRW/TD/	8-32 X 1-1/4"
5	1	RM-#4FLTW/TT/	#4 FLAT WASHER
6	5	RM-#4SPSW/TT/	#4 SPLIT LOC. WASHER
7	2	RM-#4-40T/TD/1/8	PHILLIPS TRUSSHEAD
8	1	RM-#8STAR/TD/	#8 INT STAR WASHER
9	1	SCRW-SET/TT/	8-32 X 3/16" SET SCREW
10	1	SCRW-SET/TD/BKWH	8-32 X 1/8 SET SCREW

Deltronic Labs, Inc. 120 Liberty Lane, Chalfont, PA 18914 • 215-997-8616 • FAX# 215-997-9506 • www.deltroniclabs.com

Service | Parts

Technical Support

Questions? Problems? Please call our Service Department at 215-997-8616 and we'll do our best to get you up and running.

24-hour repair available

Upon customer request, all warranty and non-warranty items returned to Deltronic Labs can be serviced and shipped back to the customer the same day they arrive. Be sure to include your shipping requirements and return address.

Fast parts service

' We provide quick shipping from our manufacturing inventory.

Fast repair service

Most repairs are done within 24 hours.

On time delivery

Our reputation is second to none.

Warranty Information

Deltronic Labs offers the following one year warranty on all ticket dispenser models from the date of purchase:

One Year Warranty

Deltronic Labs will replace or repair any mechanical or electronic parts damaged as a result of component or circuit failure. We will also repair or replace defects in parts or assembly caused by normal operations.

Deltronic Labs will not, however, be responsible for damage caused by or due to misuse of operation or power requirements, including system overloads or modification and burn out of electronic boards. Nor will Deltronic Labs be responsible for visible damage or broken or missing parts caused by tampering with the units or unauthorized servicing.

Yogi II Kit for your video pokers or slots changes credits into tickets.

Yogi II Interface Board for versatility

- Fully operator adjustable
- Only 5-1/2" x 6"
- Drop or return pulse options
- Jackpot prevention
  - Low voltage protection
  - Watchdog timer
- Reverse voltage protection
- Ticket return memory (Help mode)
- TD power diversion feature
- Full one-year warranty
- Call for full details
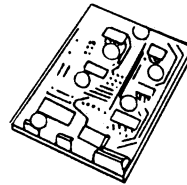


M-300-20 Interface Board for multiple pulses

An interface logic board that enables the DL1275 ticket dispenser to accept quicker pulses than the DL-4-S-S and stores up to 256 pulses. Set between 1-16 tickets per pulse. SW or logic input.
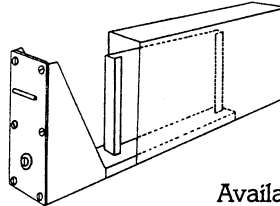
An **outside mount aluminum housing** for ticket dispenser and ticket bin, mounts on the outside of a cabinet. Ticket dispenser slides in, locks with key.
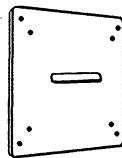
Available with Low Ticket Indicator Light

18"L x 4"W x 7"H
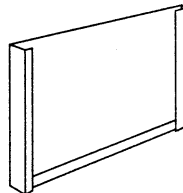
Ticket Bin
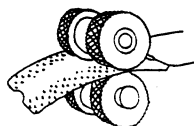
DIMS - 2000 capacity
10-3/4"L x 1-1/2"W x 6"H

4000 capacity
10-3/4"L x 1-1/2"W x 12"H

Mounting Plate

A stainless steel plate that mounts to the front of our ticket dispenser and allows for direct mounting to your cabinet (comes with hardware).
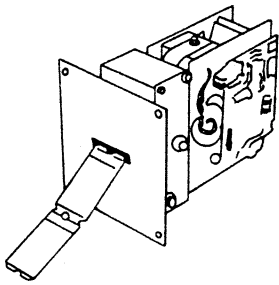
5"L x 5"W

Validation Kit retrofits existing rollers and top ticket guide
With removable top metal guide.

Please call for additional information and prices.

One Pulse Ticket Dispenser

The DL-4-S-S (SW) input
This is a one pulse-one ticket dispenser. The game pulses the dispenser once and one ticket is vended.

Logic Input Option:
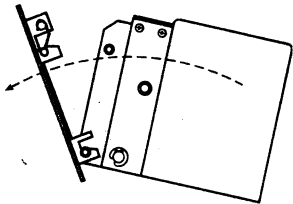The DL-4-P-S uses a logic input rather than a switch to pulse.

Optical Coupler Option:
The DL-4-O-S uses an optical coupler input instead of a switch or logic to pulse.

Note: DL-4-S-S and P-S dispensers have 12V ticket meter output.

## Ticket Dispenser Upgrades   If you have older ticket dispensers we have retro-fit kits available.

The new quick release face plate can be retro-fitted to any existing Deltronic Labs dispenser. Please call for our quick release face plate retro-fit kit which includes:
- "Quick Release" Face Plate
- 1.032 nylon spacer
- 4 - Pem Nut #SO-440-8-Z1
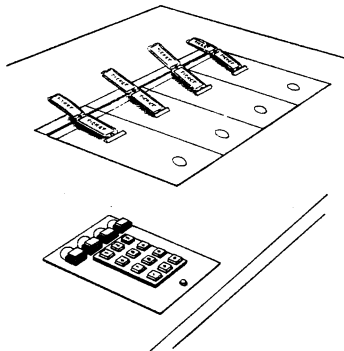- Complete instructions

"Quick Release" Face Plate Kit

5-1/2"L x 3"W x 4"H
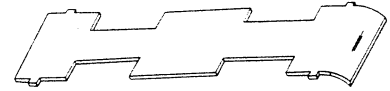
NEW Bottom **Metal** Ticket Guide replaces bottom plastic guide.

NEW Opto-Sensor Dust Cover

Admission Keypad Ticket System

- Free your people from fumbling with stacks of tickets and cash
- Great for admissions at ticket booths and amusement parks
- Use from 1 to 5 dispensers. You can always add later.
- Allows for multiple values and multiple ticket colors to be dispensed at one station.
- Dispense from 1 to 99 tickets just by pushing the right buttons.

- Free your personnel from handling several stacks of different tickets and cash at the same time.
- Deltronic's new modular admission keypad ticket system controls multiple ticket dispensers from one keypad. Just enter any number of tickets from 1 to 99 on the keypad then press the appropriate dispenser switch. It also includes individual counters for each dispenser.

The Ticket Eater counts, destroys, and tracks redemption tickets, faster, easier & more accurately than ever before.
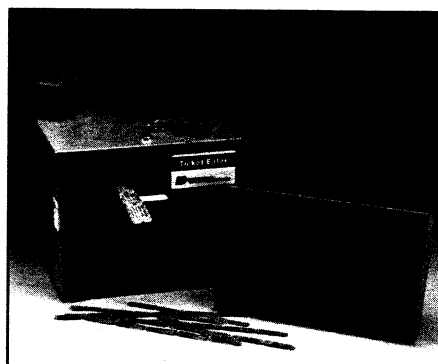
DL-5000
Our standard Ticket Eater unit with hard mounted 4-digit display
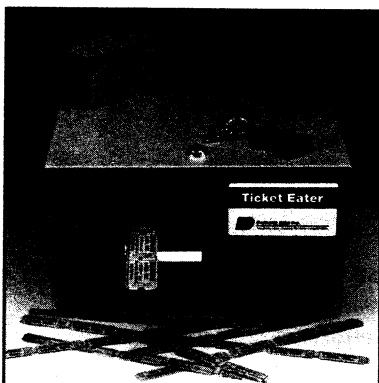
DL-6000
The Ticket Eater with additional large, 3-digit movable display
(shown below with optional stand)

DL-9000
Micro-processor controlled Ticket Eater System with mid-sized, movable display, receipt printer and programmable keypad
(shown below with optional stand)

Deltronic Labs, Inc. 120 Liberty Lane, Chalfont, PA 18914 • 215-997-8616 • FAX# 215-997-9506 • www.deltroniclabs.com