



APPLICATION		REVISIONS			
NEXT ASSY	USED ON	REV	DESCRIPTION	DATE	APPROVED
		A	PRODUCTION RELEASE/SEE E.O. 34334	4-26-99	L.D.HATCH
		B	SEE E.O. 34672	9-30-01	L.D.HATCH
		C	SEE E.O. 35345	<i>Des</i> 9-20-01	<i>wh</i>

MANUAL

- SHEET 0 - THIS SHEET
- SHEET 1 - FEATURES
- SHEET 2 - GENERAL SPECIFICATIONS
- SHEET 3 - EXPLODED ASSY VIEW & PARTS REFERENCE
- SHEET 4 - ASSY INSTRUCTIONS
- SHEET 5 - ASSY INSTRUCTIONS
- SHEET 6 - KIT NUMBERING SCHEME



REV STATUS OF SHEETS	REV	C	C	B	B	B	B	C										
	SHEET	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE ARE :</small> <small>FRACTIONS DECIMALS ANGLES</small> <small>± .XX± ±</small> <small>XXX±</small> <small>DO NOT SCALE DRAWING</small>	CONTRACT NO.		 INDUSTRIAL ELECTRONIC ENGINEERS, INC. VAN NUYS, CALIFORNIA
	APPROVALS	DATE	
TREATMENT	DRAWN	ISIS WOLFE	3-30-99
FINISH	CHECKED	D.SUMMERS	4-26-99
	ISSUED	L.D.HATCH	4-26-99
	SIZE	CAGE CODE	DWG NO.
	A	05464	PDK-102B-INOPML
	SCALE -	PROJ NO. 468	SHEET 0 OF 6
			REV C





**DISPLAYS
KEYBOARDS
INTEGRATED PANELS**

INDUSTRIAL ELECTRONIC ENGINEERS, INC. 7740 Lemona Ave., Van Nuys, CA 91409-9234, U.S.A. • Tel 818-787-0311

PDK-102B-XXX0XX* EPSON DM-D102 Compatible VF POS Pole Display Kit

INSTALLATION and OPERATING INSTRUCTIONS

Key Features:

- Vacuum Fluorescent (VF) display - 2 line x 20 character 9mm 5x7 dot matrix - with contrast enhancing filter, EIA-232 interface and RJ-45 cable.
- Fully Plug-and-Play compatible with the EPSON DM-D102 interface.
- Display module housed in a compact, impact resistant enclosure with four-position tilt-recline and 330° swivel adjustment.
Pole and mounting base kit are included.
- Display certified to the requirements of UL, CE, TUV and FCC Part 15, Class A.

(* Refer to Page 6 for exact configuration of your kit).

Table of Contents:

Page 2 provides General Specifications and an introduction to the Assembly and Installation of the pole display.

Page 3 provides an exploded view of your pole display assembly with part numbers, so you can identify and verify that you have all the parts ordered.

Page 4 and 5 provide instructions for assembling the display and several mounting configurations

Page 6 provides the kit numbering scheme that defines the exact contents as referenced by the number on the lid of the shipping box. **PDK-102B-XXX** defines the characteristics of the display head (i. e. display type, software functionality, pole position, housing color and filter color) and cannot be revised.

PRODUCT SUPPORT

For information not found in these Instructions, please contact IEE's Sales Application Engineering Department:

**Industrial Electronic Engineers, Inc.
7740 Lemona Avenue
Van Nuys, California 91409-9234 USA**

**Phone: (800) 422-0867 or (818) 787-0311
Fax: (818) 901-9046
E-mail: mail@ieeinc.com**

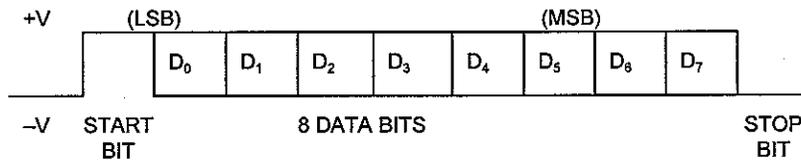
**PDK-102B-INOPML
September 17, 2001**

GENERAL SPECIFICATIONS

Interface:

• Power:	Supply voltage	11-29 Vdc	• Pin Assignments:	(Host)	RJ-45
	Supply current @24 Vdc	213 ma (max)			
• Caution:	Supply risetime	100 milliseconds (max)	FG	1	FG
	Supply sequencing	Rapid ON/OFF sequencing is not recommended.	RXD	2	TXD
• Signal:	Start cycle	The display is not ready to accept data until 1.2 seconds after application of power.	TXD	3	RXD
	Serial EIA-232	9600 baud - 8 bits - no parity	DTR	4	DSR
	Serial input levels	+3V to +15V (space/logic 0) -3V to -15V (mark/logic 1)	DSR	5	DTR
			SIG GND	6	SIG GND
			+24VDC	7	11-29VDC
			PWR GND	8	COM

Data Format



Environmental:

- **Operating Temperature:** 0 to +70 °C (+32 to +158 °F)
- **Storage Temperature:** -20 to +70 °C (-4 to +158 °F)
- **Relative Humidity:** 0 to 95% (non-condensing)

ASSEMBLY and INSTALLATION

Pages 3, 4 and 5 provide information on the assembly and installation/attachment of the pole display. Review the installation steps below, before proceeding to the assembly and attachment of the unit, as they may impact the sequence and/or details (cable routing, etc.) of your unique configuration.

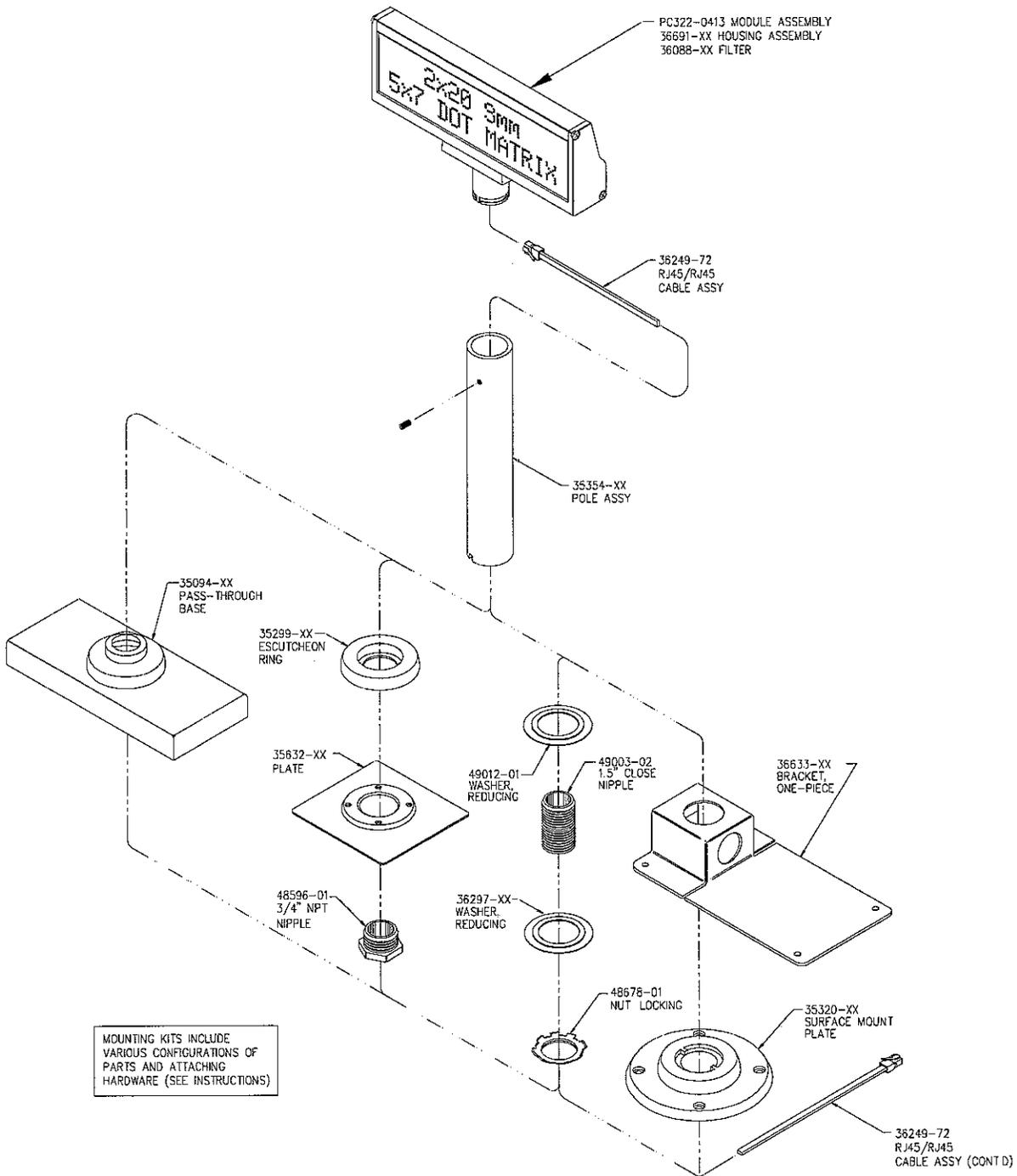
Installation Instructions:

Perform these electrical installation steps after, or as a part of, the attachment instructions appropriate for the specific mechanical installation

1. Plug the RJ-45 (male) display connector into the Host receptacle (computer, printer, etc)
2. The POS display is now ready to respond to the EPSON DM-102 command set and display the EPSON character formats.

EXPLODED ASSEMBLY VIEW and PARTS REFERENCE

PDK-102B-XXX0XX POS POLE DISPLAY DISTRIBUTOR KIT TYPE 3C POD RS232 INTERFACE



ASSEMBLY INSTRUCTIONS

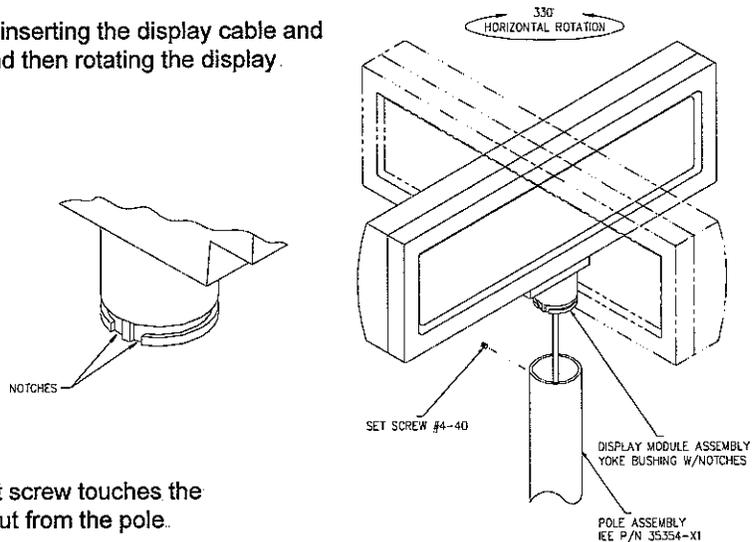
Mounting Kits:

- **36714-0X PASS THROUGH BASE MOUNTING KIT (standard)**
 - (1) 36094-XX BASE
 - (1) 48596-01 CONDUIT NIPPLE
- **35360-0X SURFACE MOUNTING KIT**
 - (1) 35320-XX SURFACE MOUNT PLATE
 - (1) 48596-01 CONDUIT NIPPLE
- **36231-0X ICD POLE KIT**
 - (1) 36297-XX WASHER, REDUCING
 - (1) 49003-02 CLOSE NIPPLE
 - (1) 49012-01 WASHER, REDUCING
 - (1) 48678-01 LOCKNUT
- **35697-0X BASE KIT, HEAVY METAL**
 - (1) 35632-XX PLATE, MULTI-PURPOSE
 - (1) 35299-XX ESCUTCHEON RING
 - (1) 48596-01 CONDUIT NIPPLE
- **36634-0X MOUNTING KIT, SHEET METAL BASE**
 - (1) 36633-XX BASE, SHEET METAL
 - (1) 48596-01 CONDUIT NIPPLE
 - (4) 48765-10 #8-18 PAN HEAD SCREW, THD FORMING
- **36631-99 APG BRACKET KIT**
 - (1) 36630-99 BRACKET, POLE
 - (1) 48596-01 CONDUIT NIPPLE
 - (2) 48989-02 #8-32 PAN HD. SCREW, LOCKWASHER
 - (2) 43311-04 #8-32 NUT, HEX

Display Module and Pole Assembly:

The display module is attached to the pole assembly by inserting the display cable and yoke into the pole at the end closest to the set screw, and then rotating the display.

1. Insert the cable into the pole *at the end closest to the set screw*. Pull the cable through the pole to eliminate slack.
2. Insert the display module partially into the pole and align the set screw with one of the two notches on the yoke bushing.
3. Push the yoke bushing completely into the pole, then rotate the module on the pole as desired.



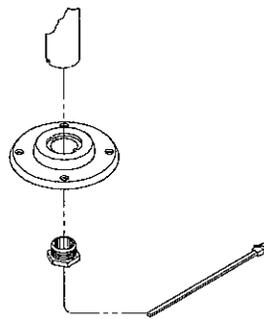
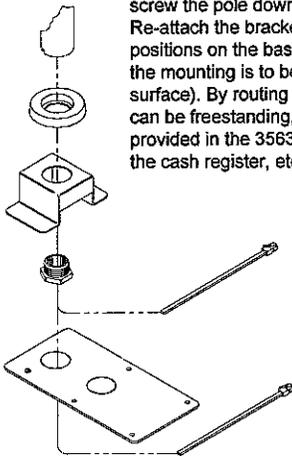
TO REMOVE THE MODULE:

Rotate the module in either direction until the set screw touches the stop on the yoke, then pull the module straight out from the pole.

Surface Mount and Freestanding Configurations:

Mounting Kit, Universal

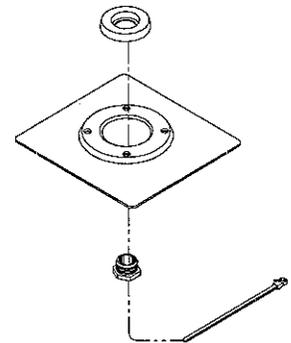
Detach the bracket from the base plate. Thread the cable through the escutcheon ring, the hole in the bracket and the conduit nipple. Holding the conduit nipple up through the bracket hole and escutcheon ring, screw the pole down onto the conduit nipple until tight. Re-attach the bracket in one of the three mounting positions on the base plate (drive out the knockout first if the mounting is to be over a hole in the mounting surface). By routing the cable appropriately, the base can be freestanding, mounted with screws or Velcro provided in the 35635-02 Attachment Kit or slid under the cash register, etc.



Thread the cable through the surface mount plate and conduit nipple. Place the pole in the surface mount plate and screw the conduit nipple into the pole until tight. The cable can be routed through one of the breakout tabs (use wide, square jaw pliers) and along the mounting surface or through a hole (1-2 in. dia.) in the mounting surface. Attach the mounting plate to the surface with the 4 screws in the 35638-01 Mounting Screw Kit

Surface Mount Plate

Route the cable through the escutcheon ring and base. Route the cable through the conduit nipple and push the nipple into the recess in the bottom of the base. Pulling the cable slack through, put the pole in place in the escutcheon ring and tighten it onto the nipple threads until snug

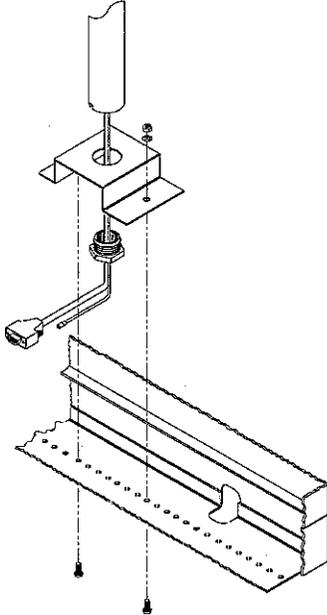


Base Kit, Heavy Metal

CASH DRAWER MOUNTING CONFIGURATIONS:

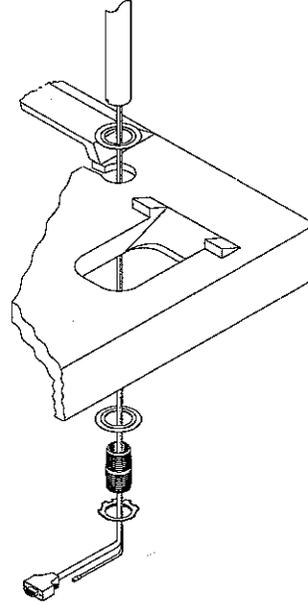
- **APG CASH DRAWER**

Thread the DIN8F connector through the conduit nipple, bracket and pole, pulling out some slack. Hold the nipple in place and tighten the pole down onto the bracket. Mount the assembly (through the partner) in the selected position along the row of mounting holes at the rear of the drawer using the hardware as shown.



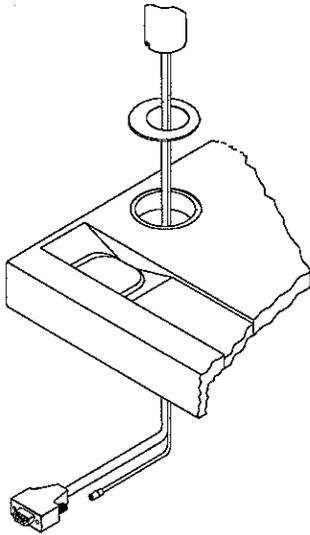
- **INDIANA CASH DRAWER**

Remove the mounting bracket on the underside of the shoe. Tighten the close nipple into the pole. Thread the DIN8F connector through the locknut, metal washer, shoe, painted washer and pole. Put the pole on the painted washer and tighten it in place with the locknut.



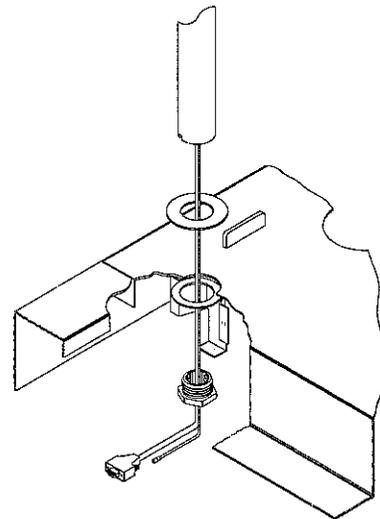
- **MMF CASH DRAWER**

Loosen the U-clamp nuts on the pole mounting bracket in the POS platform system. Thread the DIN8F connector through the POS platform, eccentric washer and pole. Seat the pole in the bracket to full depth and tighten the U-clamp nuts to secure the assembly in place.



- **MS CASH DRAWER**

Remove the clamp assembly from the mounting bracket on the underside of the POS deck. Thread the DIN8F connector through conduit nipple, small washer, POS deck, painted washer and pole, pulling out some slack. Slide the small washer under the edges of the spotwelded bracket at the underside surface of the POS deck. Hold the nipple in place through the washer and tighten the pole onto the nipple, over the painted washer, to secure the pole.



KIT NUMBERING SCHEME

PDK-[102B]- X₁ X₂ X₃ 0₄ X₅ X₆

POLE POSITION

- 0 = CENTER/NO OPTION
- C = CENTER
- L = LEFT SIDE
- R = RIGHT SIDE

HOUSING COLOR

- W = WHITE (IEE IVORY GRAY)
- B = JET BLACK

FILTER COLOR

- A = AMBER
- B = BLUE
- G = GREEN
- N = NEUTRAL GRAY
(DISPLAY APPEARS AQUA)

POLE LENGTH

- 0 = NOT PROVIDED
- B = MINIMUM LENGTH (2 IN.)
- S = SHORT (6 IN.)
- D = MEDIUM SHORT (10 IN.)
- M = MEDIUM (12 IN.)
- L = LONG (18 IN.)
- X = EXTRA LONG (22 IN.)

MOUNTING KIT

- 0 = NOT SUPPLIED
- 1 = MNTG KIT, UNIVERSAL
- 2 = MNTG KIT, HARD
- 3 = MNTG KIT, SHEET METAL
- 4 = BASE KIT, PASS THRU
- 5 = BASE KIT, HEAVY METAL
- 6 = SURFACE MOUNT KIT
- A = MNTG KIT, APG BRACKET
- I = MNTG KIT, ICD POLE
- C = MNTG KIT, MS CASH

POWER SUPPLY

- 0 = NOT SUPPLIED

NOTE: THE SUB-SET PDK -[102B] -X₁X₂X₃ DEFINES THE DISPLAY ASSEMBLY IN THIS PDK KIT.