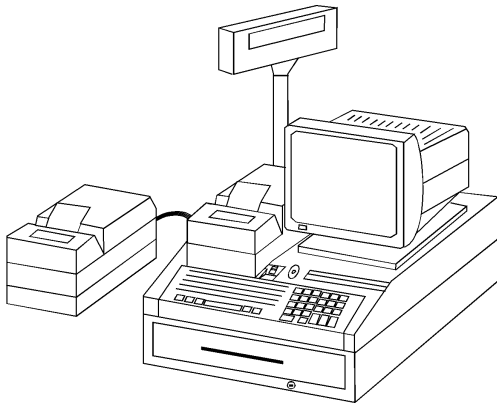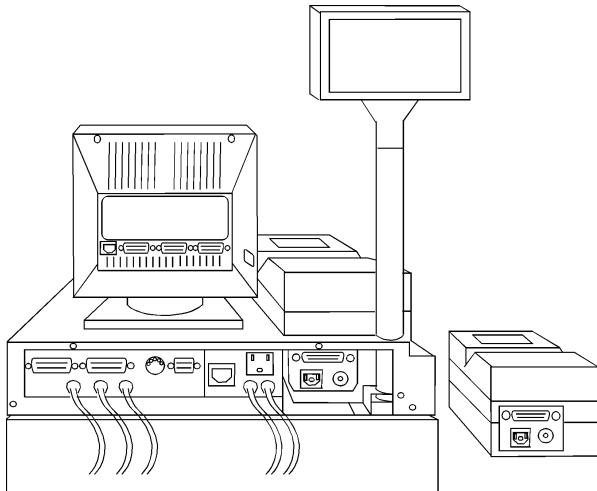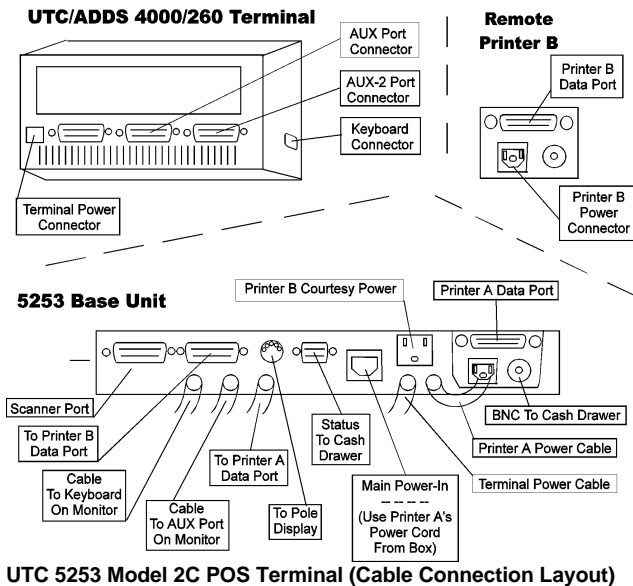# Ultimate Technology Corporation
5253 Model 2C POS Terminal

UTC 5253 Model 2C POS Terminal (Front View)

UTC 5253 Model 2C POS Terminal (Rear View)

UTC 5253 Model 2C POS Terminal (Cable Connection Layout)

Specifications

Displays
- UTC/ADDS 4000/260 Terminal
- UTC PD220XL Customer Display

Keyboard
- Custom 82 Keys

Cash Drawers
- Mountable under counter or terminal
- Removable cash drawer
- Lock either manual or electronic
- Media slot access
- Cable pass-through

Magnetic Card Reader
- Two tracks (1 & 2)
- Uni-directional

Printers
- Printer A
    - Built-in to terminal
    - 15 line validation capability
    - Customer receipt
    - Transaction journal report
- Printer B
    - Remote transaction journal report
- Print buffer (2K)
- Graphics Mode - DOT addressable
- Receipt journal take-up reel
- 520 LPM (Turbo version)
- 240 CPS Bi-directional printing.
- 12,24 CPI selectable
- 9 pin print-head
- 40 columns @ 17 CPI

Communications
- Key switchable for Setup/Diagnostic, On, Stand-by
- Asynchronous transmission
- Full duplex operation
- Speeds up to 134.4 KBS

Power Supply
- 115 VAC $\pm$ 10% 60Hz @ 2 Amps

UTC PD220XL Customer Poll Display
- 2 x 20 character display
- 15° tilt radius.
- 360° rotation display
- Vertical scrolling
- 215 digit display
- Gas Vacuum fluorescent display, 4 intensities

Dimensions
- Assembled: 20"w x 20" d x 30.75" h
- Printers: 6.75" w x 11.5" d x 7" h
- Base Unit: 20" w x 20" d x 3.75" h
- Cash Draw: 20" w x 20" d x 4.75" h
- Pole Dsply: 7.5" w x 1.75" d x 26" h
- Terminal: 14" screen

Tools and Software Requirements

- Phillips head screwdriver
- Flat bladed screwdriver.
- Needle nose pliers.

Diagnostics

UTC 5253 Model 2C Base Unit.

- Turn MODE switch to AUX
- Base Unit will display the diagnostic screen.
  - A) Printer A
    - Prints 4 lines of:
    - "Integral Receipt Printer - PcOS 53"
  - B) Printer B
    - Prints 4 lines of:
    - "Integral Receipt Printer - PcOS 52"
  - C) Pole Display
    - Will display "POLE TEST" on line 1
    - and "PRINTER B" on line 2
    - of the UTC 220XL unit display.
  - D) Cash Drawer
    - Will open the cash drawer.
  - E) Magcard/scanner
    - Will display information of a card swiped.
  - F) Keyboard
    - Will display keyboard layout with "O" to "X"
    - for successful strokes.   Five "F1" in a row
    - exits the keyboard test program.
  - G) Set-Up
    - Enters the Manual Set-Up section
  - H) Auto Set-Up
    - Enters the automatic setup.

- Turn MODE switch to ON to exit diagnostics

Printer A - FONT, CASH DRAWER, VALIDATION

- Power off the printer itself or VIA UTC 5253 Base Unit.
- Press/hold LF button on printer and power-on again.
- A test pattern will print once.
- Insert a validation slip when asked to do so.
- A validation test will print once.
- Cash Drawer will open
- Test is complete

Printer B - FONT

- Power off the printer itself or VIA UTC 5253 Base Unit.
- Press/hold LF button on printer and power-on again.
- A test pattern will print once.
- Test is complete

Printer A or B - SELF TEST

- Power off the printer itself or VIA UTC 5253 Base Unit.
- Press/hold LF button on printer and power-on again.
- A test pattern will continuously print
- To stop, Press SEL key on printer or cycle power to unit

Special Notices

- Printer A (PcOS 53) and Printer B (PcOS 52) are not electronically the same.   One should take care so that one of each is used per system installation and installed properly.
- When using Printer (A) use the power supply pigtail cord located inside the rear cover of the base unit and use the power cord supplied in the printer box to connect the UTC 5253 main unit to the power source.
- If your counter is not equipped with the predrilled holes for the cables, the Printer B power cable, Printer B data cable and the main power cable will route through the large cutout in the center of the rear of the back cover panel instead of the through the cash drawer pass through openings.   The host cable can be directly plugged into the port on the back of the UTC ADDS/2000/260 Display terminal labeled "SES 2-AUX".
- Security Switch in "STANDBY" mode will disable all peripheral devices except the cash drawer.   The key can be removed in this position.   It cash drawer key is removed and cash drawer is locked then this switch will prevent the cash drawer from being opened also.

Remote Journal Printer B   (Model 52)

Serial Communications			Control Board	
SW1 1 - ON	SW2	1 - ON	DIP SW	1 - OFF
2 - ON		2 - OFF		2 - OFF
3 - ON		3 - ON		3 - OFF
4 - ON		4 - OFF		4 - OFF
5 - ON		5 - ON		5 - ON
6 - ON		6 - ON		6 - OFF
7 - ON		7 - ON		7 - ON
8 - ON		8 - OFF		8 - OFF

Receipt Printer A   (Model 53)

Serial Communications			Control Board	
SW1 1 - ON	SW2	1 - ON	DIP SW	1 - OFF
2 - ON		2 - OFF		2 - OFF
3 - ON		3 - ON		3 - OFF
4 - OFF		4 - ON		4 - OFF
5 - ON		5 - ON		1 - ON
6 - ON		6 - ON		1 - OFF
7 - ON		7 - OFF*		1 - ON
8 - ON		8 - ON		1 - OFF

Scanner Port -- Default Baud: 9600, N, 8, 1

Pin #	Device Function
3	Receive Data
4	
5	
7	Signal Ground

PD220/XL Poll Display -- Default Settings

Baud	4800, N, 8, 1
Brightness	High
Power UP Mode	No Wrap

Installation Procedures

Cash Drawer
- Unpack cash drawer and place on installation site
- Slip 2 cash drawer cables through right rear of drawer
- Lock cash drawer for stability

5253 Base Unit
- Place base unit on top of cash drawer
- Align the pass-through holes in the right rear corner
- Remove 4 screws in bases' rear cover panel & set aside
- Remove inside cables from base & pull thru rear opening
- Place the 2 cash drawer cables through bases' bottom, if host cable available, pass it through with these cables.
- Turn base units' front mounted red switch to OFF

Printer A
- Unpack Printer A, and set aside the power cord
- Turn printer's power switch "ON" (On the side)
- Place into position within the 5253 base unit
- Connect 1' cable from base unit "Printer A" to Printer A
- Connect base unit's LR power cord to Printer A for power

Printer B
- Unpack Printer B and place in position
- Turn Printer B power switch to On
- Plug in power cord to Printer B provided with Printer B
- Plug data cable to data port at rear of Printer B
- Finger tighten printer cable to Printer B
- Insert Printer B power & data cables thru 5253 base unit
- Finger tighten Printer B data cable to 5253 base's port
- Connect Printer B power to courtesy plug on base unit

PD220/XL Customer Display Pole
- Unpack and position pole into the plastic mounting bracket
- Insert pole until pole bottoms out at the bracket stop
- Insert "Pole display" cable to spot on 5253 base unit
- To change poll setup from default, press "Menu Select #1" then "Menu Select #2" for the list of settings. Change any settings to your specifications and exit.

Terminal ADDS 4000/200
- Unpack Display Unit
- Place terminal on top of the 5253 base unit
- Connect 2' "Aux" cable from base unit to the display unit
- Connect KB cord from 5253 Base Unit to Display Terminal
- Connect LL Power cord to Display Terminal
- Secure these cables now with fingers or tool
- Turn Display terminal unit to the "ON" Position

Cash Drawer Cables
- Locate BNC style cable from the cash drawer and Twist/Lock BNC cable into Printer A's BNC receptacle
- Locate Status cable (DB-9) style from cash drawer and connect to port "Status" on the 5253 base unit
- If Host cable is through cash drawer connect to the rear "Main Port" on the UTC/ADDS 4000/260 Terminal
- Secure these cables now with fingers or tool

Closing Installation Steps

5253 Base Unit
- Return any excess cable length to the cash drawer
- Make sure that no cable or pinch or damaged
- Put rear cover back on and screw in the 4 plate screws
- Take Power Cord from Printer A box that was set aside and plug it into wall and the 5253 Base Unit
- Unlock the Cash Drawer for operation

Printer Setup For Both A & B
- Remove printer top cover
- Remove paper roll and take off the carriage
- Open print-head and remove carriage restraint
- Slide print-head to center of the printer
- Perform correct Customer Replacement for each printer

Customer Replacement Instructions

Printer Cassette Installation
- Turn printer OFF
- Tilt ribbon cover to reveal the ribbon cassette
- Slide ribbon cassette to center of printer for easy access
- Lower top of cartridge over print-head and align the tabs
- Press cassette until it snaps in place
- Adjust the forms compensation assembly at rear of printer
- Turn Printer ON

Ribbon Cassette Removal
- Open the forms compensation assembly
- Hold ribbon cassette on both sides and lift-up

Receipt Paper Installation (Printer A)
- Turn Printer Off and remove cover from paper area
- Insert core rod into paper
- Place both into printer with paper exiting from below
- Turn ON printer and take it OFF-LINE
- Depress LF button to advance paper out of printer
- Close cover and tear off excess paper

Journal Paper Installation (Printer B)
- Advance paper 2" above the tear-off blade
- Fold a portion of paper at end over or in spindle
- Turn 2 to 3 times to ensure paper is wrapped around
- Reinsert spindle and press LF to take up oaper slack

Field Replaceable Units

Hardware

Description	OEM Part	IBM Part
Power Distribution	10055-PS-ASMB	93F9615
Back Panel Assembly	10055-M2-BK-ASMB	93F9614
Prn Mod-53 Parallel Turbo	06-3005	70H8438
Prn Mod-53 Serial Turbo	06-1035	93F9613
IBM 3151 Amber Display	N/A	81X4519
APG 222 Cash Drawer Kit	APG_MIID24D222	*
Inner Drawer Tray Kit	PK247-10	45F4817
Solenoid Kit, 24VDC	PK247-3	45F4834
Latch Kit	PK247-4	45F4835
Drawer Sensor Kit	PK247-5	45F4836
Drawer Spring Kit	PK247-6	45F4837
Wiring Harness, Ithaca BNC Conn.	PK247-23	45F4831
Wiring Harness UTC 222	PK247-31	93F9244

* APG-222 cash drawer is available as parts. (OEM:PK???-??)

Cables

Description	OEM Part	IBM Part
Test Plug/Cable	CAB20007	62H0871
Scanner Cable Assmbly	CAB20069	90G8027

ROM's

Description	OEM Part	IBM Part
Keyboard, EPROM	ROM-10134.V1.1	90G6444

Accessories

Description	OEM Part	IBM Part
Keyboard, Qwerty	10055KQWRASMB-BR	93F8865
Printer Roller Core	06-0680	22H4149
Printer Take Up	06-0993	22H4150
Lowes Keycap Set	KEYS-10134	22H4151
5253 Keyboard Kit*	5253KYBD-KIT	22H4152
5253 91 Keyboard	1005591ASMB-BR	93K9611
3151 Cartridge	N/A	64F9276

* 5253 Keyboard Kit can not be obtained as separate parts.