Installing the DS2000 16ASTU PCB (P/N 80042)

The DS2000 16ASTU PCB requires system software version 03.14.00 or higher and expanded memory CPU P/N 80025B.

Part 1: Installation

The 16ASTU PCB PCB (P/N 80042) provides connection for 16 analog extensions.

To install the 16ASTU PCB:

1. Check your system configuration to be sure you do not exceed the allowable System Load Factor.
   Refer to the DS2000 System Load Factor Calculations chart in your DS2000 Hardware Manual for more.
   *- The 16ASTU PCB 5 VDC Load is **10**.*
   *- The 16ASTU PCB 40 VDC Load is **17**.*
2. Plug the 16ASTU PCB into any available slot from **CN2**-**CN8**. See Figure 1 below.
   *You should reserve **CN1** for a 16DSTU PCB.*
   The PCB will auto-ID when you plug it in.
3. Set the mode switch on the 16ASTU PCB to **RUN**.

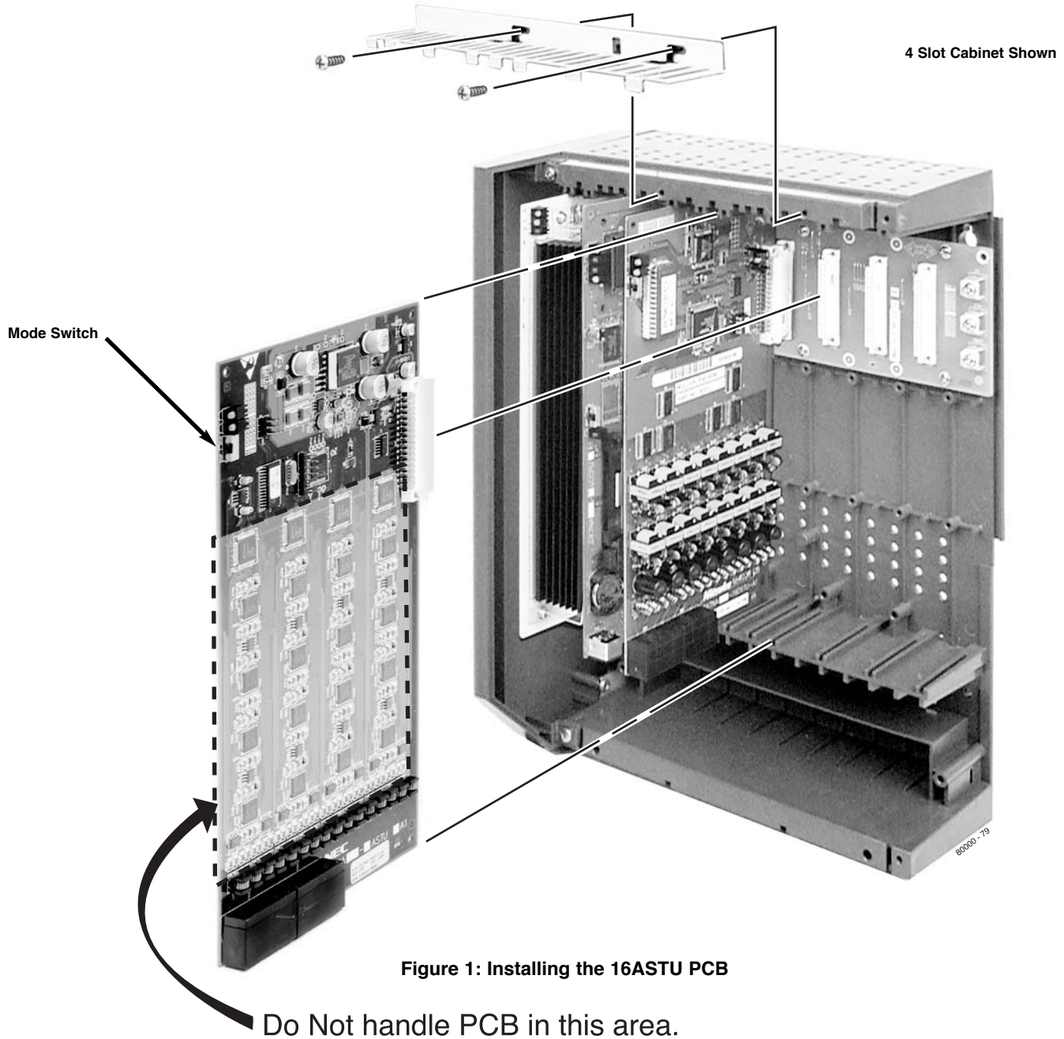

Figure 1: Installing the 16ASTU PCB

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Part 2: Connecting the 16ASTU PCB

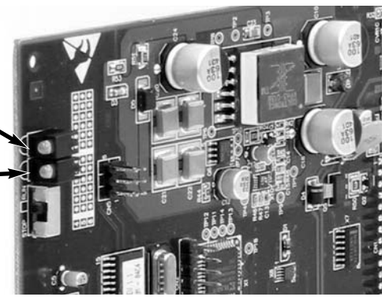
The 16ASTU PCB has four 8-pin mod jacks to connect analog extensions. Using the Installation Cable (P/N 80892) makes it easy to connect the PCB to a standard 66M1-50 connecting block. This cable has six 8-pin modular jacks on one end and is unterminated on the other.

1. Route an Installation Cable through the cabinet and secure it with the strain relief.
2. Punch down the Installation Cable in standard color-code order on an available 66M1-50 block.
3. Connect the Installation Cable modular jacks to the 16ASTU PCB as shown in Figure 2 at right.
4. Connect your analog extensions as outlined in the *DS2000 Hardware Manual*.

Part 3: LEDs on the 16ASTU PCB

Sync Status LED (Green)
Slow flash: PCB running, in sync.
Fast flash: PCB running, out of service, and waiting for sync. This is the same as setting the mode switch to **STOP**.

Port Activity (Yellow)
Off: All ports on PCB idle.
Fast flash: Port(s) busy. The faster the flash, the more ports are busy.



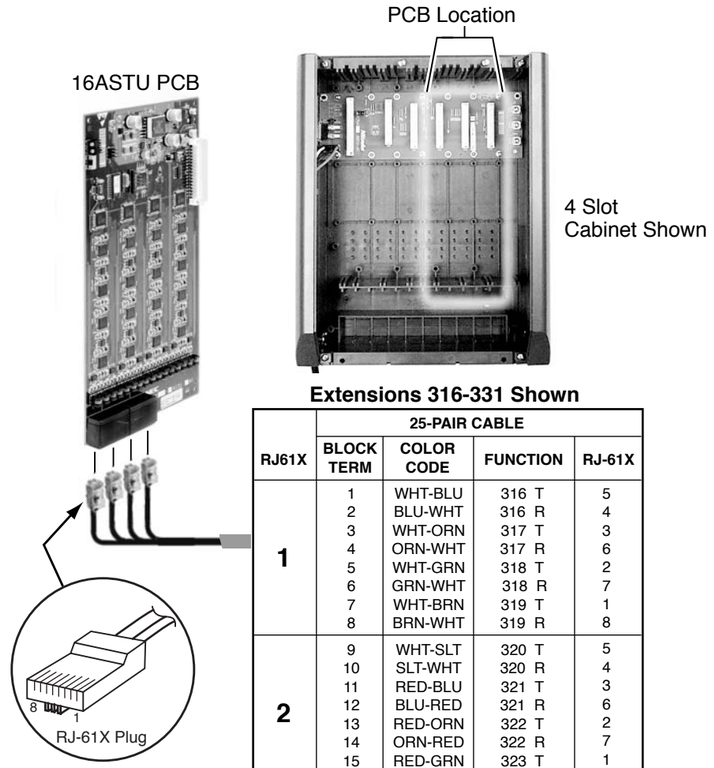
Part 4: Specifications

16ASTU PCB Single Line Telephone Voltages

DC voltage measured at the MDF (between tip and ring) . . . .On-Hook Idle State Minimum: 44VDC
On-Hook Idle State Maximum: 56 VDC
Off-Hook Active State: 7.5 VDC typical, depending on telephone type and loop length

Ringing voltage . . . . . .50-65 VAC, sinusoidal (sine wave)

High Voltage Message Waiting . . . . . .95 VDC



Extensions 316-331 Shown

RJ61X	25-PAIR CABLE BLOCK TERM	COLOR CODE	FUNCTION	RJ-61X
1	1	WHT-BLU	316 T	5
	2	BLU-WHT	316 R	4
	3	WHT-ORN	317 T	3
	4	ORN-WHT	317 R	6
	5	WHT-GRN	318 T	2
	6	GRN-WHT	318 R	7
	7	WHT-BRN	319 T	1
	8	BRN-WHT	319 R	8
2	9	WHT-SLT	320 T	5
	10	SLT-WHT	320 R	4
	11	RED-BLU	321 T	3
	12	BLU-RED	321 R	6
	13	RED-ORN	322 T	2
	14	ORN-RED	322 R	7
	15	RED-GRN	323 T	1
	16	GRN-RED	323 R	8
3	17	RED-BRN	324 T	5
	18	BRN-RED	324 R	4
	19	RED-SLT	325 T	3
	20	SLT-RED	325 R	6
	21	BLK-BLU	326 T	2
	22	BLU-BLK	326 R	7
	23	BLK-ORN	327 T	1
	24	ORN-BLK	327 R	8
4	25	BLK-GRN	328 T	5
	26	GRN-BLK	328 R	4
	27	BLK-BRN	329 T	3
	28	BRN-BLK	329 R	6
	29	BLK-SLT	330 T	2
	30	SLT-BLK	330 R	7
	31	YEL-BLU	331 T	1
	32	BLU-YEL	331 R	8
5	33	YEL-ORN		5
	34	ORN-YEL		4
	35	YEL-GRN		3
	36	GRN-YEL		6
	37	YEL-BRN		2
	38	BRN-YEL		7
	39	YEL-SLT		1
	40	SLT-YEL		8
6	41	VIO-BLU		5
	42	BLU-VIO		4
	43	VIO-ORN		3
	44	ORN-VIO		6
	45	VIO-GRN		2
	46	GRN-VIO		7
	47	VIO-BRN		1
	48	BRN-VIO		8
	49	VIO-SLT	NC	
	50	SLT-VIO	NC	

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Figure 2: Connecting to the 16ASTU PCB