

Firmware Release: DD882200.000 - Date: April 2000
Previous Version: DD882100.000 & DD882133.000

This new release of firmware includes the features and enhancements listed on the following pages of this bulletin.

THE DOWNLOAD FILES AND DOCUMENTATION ARE FURNISHED TO YOU "AS IS" WITHOUT WARRANTY OF ANY KIND. PROTEL DOES NOT WARRANT THAT THE DOWNLOAD FILES OR THE ACCOMPANYING DOCUMENTATION WILL MEET YOUR REQUIREMENTS OR THAT THE OPERATION OF THE DOWNLOAD FILES WILL BE UNINTERRUPTED OR ERROR FREE. PROTEL DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE DOWNLOAD FILES AND ACCOMPANYING DOCUMENTATION, INCLUDING, BUT NOT LIMITED TO, ANY OR ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

LIMITATION OF LIABILITY

THE DOWNLOAD FILES AND ACCOMPANYING DOCUMENTATION ARE FURNISHED TO YOU FOR USE AT YOUR OWN RISK. PROTEL WILL NOT BE LIABLE AND YOU WILL HAVE NO REMEDY FOR DAMAGES FOR ANY CLAIM OF ANY KIND WHATSOEVER CONCERNING YOUR USE OF THE DOWNLOAD FILES OR THE ACCOMPANYING DOCUMENTATION, REGARDLESS OF LEGAL THEORY, AND WHETHER ARISING IN TORT OR CONTRACT. IN NO EVENT WILL PROTEL BE LIABLE TO YOU FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND, INCLUDING, BUT NOT LIMITED TO, COMPENSATION, REIMBURSEMENT OR DAMAGES ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS, LOSS OF DATA, OR FOR ANY OTHER REASON WHATSOEVER.

Voice Chip Compatability

This download file is compatible with both Type I (CDX308) and Type II (CDX333) voice. Therefore, it is no longer necessary to maintain two separate download files if you have phones that contain Type I and Type II voice. It should be noted that the download file is being identified as DD882200.000. It is no longer necessary to provide a DD882233.000 download file.

Add New Toll Free Area Codes

Area codes 866 and 855 have been added to cost band 104 and will be processed as toll free numbers. Previously, only 1-800, 1-888 and 1-877 type calls were processed using cost band 104.

Call Detail Records

The operation of the NF flag (Non-Card Audit Call Detail Record Buffer Full) has been modified. Before the NF flag will be set, the phone will evaluate the Peg Count field. If the Peg Count is set to a value less than 16, the NF flag will not be set. If the Peg Count is set to 16 or greater, and the phone has collected 125 Call Detail Records without transferring them to the management software, the NF flag will be set. Typically, the Peg Count is set to a value between 16 and 125 if CDR is being retrieved from the phone. This is to insure that the management software retrieves the Call Detail Records from the phone before the CDR buffer is full.

Destination Numbers

The phone will no longer accept 101XXXX# as a valid destination number. Previously this

was accepted as a valid destination number if dialed by the payphone user. In certain instances this may have allowed fraudulent calls to be placed.

Hook Flash Timing

The amount of time that the phone drops the line during a hook flash has been adjusted to prevent a hook flash from being used to activate custom calling features. This is necessary because it has been found that certain lines may have custom calling features inadvertently enabled. When operating in the B-1 mode, the phone will always drop the line for 2-seconds after a hook switch flash regardless of the setting of option 192. In coin line mode, the duration that the phone drops the line after a hook switch flash can be selected as 2-seconds or 4-seconds using option 192 "4 Second On Hook Delay" . This option is located under Coin Line Options within the Options and Registers Menu. When operating on a coin line, it may be necessary for the central office to see a longer on-hook time to perform all escrow relay functions. When the "4-Second On Hook Delay" option is set to NO, the phone drops the line for 2-seconds after a hook switch flash. When the "4-Second On Hook Delay" option is set to YES, the phone drops the line for 4-seconds after a hook switch flash.

Instant Credit Or Service Manager Option

Option 1C7 has been added to allow for selection between the Service Manager automated trouble operator and the Instant Credit automated trouble operator. With the introduction of the 8000B, we have replaced the Instant Credit automated trouble operator feature with the Service Manager. Option 1C7 is located under the Unassigned Options within the Options and Registers menu.

- 1C7 = Off - Use Service Manager automated trouble operator
 - 1C7 = On - Use Instant Credit automated trouble operator.
-

Overtime Messages

The function of option 1A7 - "Enable Overtime Messages" and its associated option "Limited Local Overtime" have been modified. The "Enable Overtime Messages" and "Limited Local Overtime" options are located under "Special Purpose Options" within the Options and Registers Menu. These options now enable or disable voice prompts that are associated with calls that require additional charges for extended time. The specific prompts that are heard depend upon the setting of the "Enable Overtime Messages" option, the "Limited Local Overtime" option and whether or not the initial deposit exceeds the required deposit for the initial time period.

- The voice prompt "You have \$X.XX credit towards the next overtime period" will be heard if the Limited Local Overtime option is set to 1 or greater, and the initial deposit is greater than the initial deposit request.
- The overtime deposit request will be "Please deposit \$X.XX" if the Enable Overtime Message option is set to NO, and the initial coin deposit did not exceed the initial amount requested by the phone.
- The overtime deposit request will be "Please deposit \$X.XX for the next X minutes" if the Enable Overtime Message option is set to YES, and the initial coin deposit

did not exceed the initial amount requested by the phone.

- The overtime deposit request will be "Please deposit \$X.XX more" if the Enable Overtime Message option is set to YES, and the initial deposit exceeded the initial amount requested by the phone.
- The value used for Limited Local Overtime establishes the number of charged overtime periods that will be allowed before the phone restricts the call or allows the remainder of the call to be free of charge. A value of 0 disables the Limited Overtime feature.

Remove Loop Reversal Flag On B-1 Line

When operating on a B-1 line, if tip and ring are reversed, the phone no longer sets the Loop Reversed flag or provides the loop reversed beeps that were previously heard after coming off hook. There is no adverse affect on the operation of the phone if it is operating on a B-1 line and tip and ring are reversed.

Speed Dial

The operation of the speed dial feature has been modified to increase flexibility. Two new options, 1B2 and 1B3, have been added to allow for selecting different speed dial access codes.

- Option 1B2 allows for selecting #0 - #9 or *0 - *9 to be used as speed dial access codes in addition to the existing * *80 - *89, *91 & *92.
- Option 1B3 allows for disabling *80 - *89, *91 & *92 as speed dial codes. This may be desired in areas where *80 - *89, *91 & *92 are assigned Vertical Service Codes (VSC).

Speed Dial Position	1B2 = OFF (Default)	1B2 = ON	1B3 = OFF (Default)	1B3 = ON
*80	#0	*0	*80 = Speed Dial	*80 =
*81	#1	*1	*81 = Speed Dial	VSC
*82	#2	*2	*82 = Speed Dial	*81 =
*83	#3	*3	*83 = Speed Dial	VSC
*84	#4	*4	*84 = Speed Dial	*82 =
*85	#5	*5	*85 = Speed Dial	VSC
*86	#6	*6	*86 = Speed Dial	*83 =
*87	#7	*7	*87 = Speed Dial	VSC
*88	#8	*8	*88 = Speed Dial	*84 =
*89	#9	*9	*89 = Speed Dial	VSC
*91	N/A	N/A	*91 = Speed Dial	*85 =
*92	N/A	N/A	*92 = Speed Dial	VSC
				*86 =
				VSC
				*87 =
				VSC
				*88 =

				VSC
				*89 =
				VSC
				*91 =
				VSC
				*92 =
				VSC

Note:

To provide this feature it was necessary to disable the ability to adjust the receiver volume during call set-up using the # key. Once call set-up is complete, the # key can be used to adjust the receiver volume. This feature does not affect external volume control buttons.

Ignore Loop Polarity Changes On Coin Line

The operation of the loop reversal detect feature has been modified so that the phone will not react to a loop reversal when programmed to operate on a coin-line. The loop reversal detect feature is intended to be used only when the phone is operating on a B-1 line. Previously, if the phone was operating on a coin-line, and a loop reversal was detected, the phone may have muted the transmitter or dropped the call.

Copyright ©1995 Protel, Inc. All Rights Reserved.