

ThinkPad

700 PS/2



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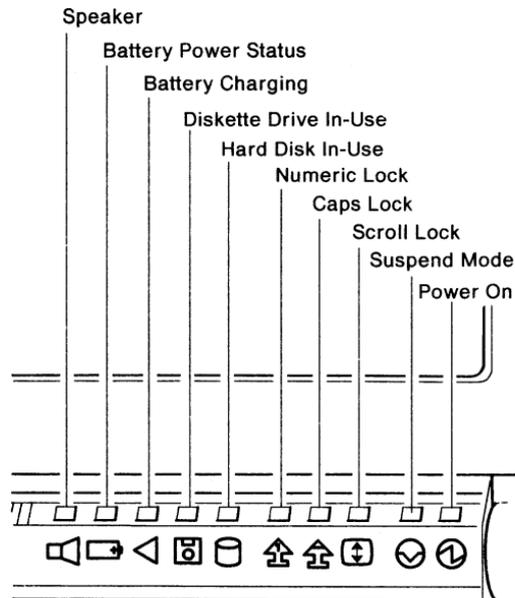
Reference Summary

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System Status Indicators

The computer tells you its current status through the following indicators.



| Indicator | Meaning |
|---|---|
|  | Blinks when the speaker is sounded. This indicator is turned off when any key is pressed. |
| Speaker | When the speaker volume control is in the left position (off), this indicator is turned off and no audio-output can be heard. |
|  | Shows the current status of the battery pack. See "Monitoring the Battery Condition" on page 6 for further information. |
| Battery Power Status | |
|  | Turns on when the battery pack is charging. Let it charge until this indicator turns off. This shows that the battery is fully charged. |
| Battery Charging | |
|  | Turns on when data is read from or written to a diskette. |
| Diskette Drive In-Use | Neither entering suspend mode nor ejecting a diskette is allowed when this indicator is turned on. |
|  | Turns on when data is read from or written to the hard disk. |
| Hard Disk In-Use | Neither entering suspend mode nor turning off the computer is allowed when this indicator is turned on. |



Speaker

Blinks when the speaker is sounded. This indicator is turned off when any key is pressed.

When the speaker volume control is in the left position (off), this indicator is turned off and no audio-output can be heard.



Battery Power Status

Shows the current status of the battery pack. See "Monitoring the Battery Condition" on page 6 for further information.



Battery Charging

Turns on when the battery pack is charging. Let it charge until this indicator turns off. This shows that the battery is fully charged.



Diskette Drive In-Use

Turns on when data is read from or written to a diskette.

Neither entering suspend mode nor ejecting a diskette is allowed when this indicator is turned on.



Hard Disk In-Use

Turns on when data is read from or written to the hard disk.

Neither entering suspend mode nor turning off the computer is allowed when this indicator is turned on.

Monitoring the Battery Condition

The battery power status indicator  shows the condition of the battery pack.

| Color | Meaning |
|------------------------|---|
| <i>Green</i> | Fully charged. |
| <i>Yellow</i> | Usable. |
| <i>Orange</i> | The power is low. It is recommended that the AC adapter be connected to the computer to charge the battery pack. |
| <i>Blinking orange</i> | Almost discharged. The computer will enter suspend mode within 1 minute. Take either of the following actions: <ul style="list-style-type: none">• Connect the AC adapter to the computer without removing the battery pack.• Close the liquid crystal display (LCD) and carefully listen to how many beeps are sounded. Then, replace the battery pack with a fully-charged spare. If you hear two beeps, connect the AC adapter, then replace the battery pack. |

| Color | Meaning |
|------------|---|
| <i>Off</i> | The battery pack is not installed, or the computer is turned off. If the computer is in suspend mode caused by a low battery condition, data can be lost. Take either of the following actions immediately. Note: We recommend you take the necessary action when the <i>blinking orange</i> condition occurs. <ul style="list-style-type: none">• To continue your work with the AC adapter:<ol style="list-style-type: none">1. Connect the AC adapter to the computer.2. Press either click button of the Pointing Stick to resume normal operation.• To continue your work with a fully-charged battery pack:<ol style="list-style-type: none">1. Connect the AC adapter to the computer.2. Replace the battery pack with a fully-charged spare.3. Press either click button of the Pointing Stick to resume normal operation.4. Disconnect the AC adapter from the computer. |

Replacing the Battery Pack

You can replace the battery pack:

- After the computer is turned off.
- Without terminating the application or turning off the computer. Follow these instructions.
 1. Close the LCD and wait about 10 seconds after you hear one beep.

Warning: If you heard two beeps, the computer has entered partial suspend mode. Connect the AC adapter. Otherwise data will be lost.

2. Quickly replace the battery pack with a fully-charged one.
3. Open the LCD to resume normal operation.

Power Saving Tips

To minimize battery power consumption and extend the operating time with a battery pack, follow these instructions:

- Close the LCD when you do not need it open.
- Decrease the LCD brightness.

Adjust the brightness control to the lowest level that allows you to comfortably view the screen.

- Use power-saving options.

Type **\PS2** at the command prompt and press **Enter** to recall the Set Advanced Features Menu. Type **2** and press **Enter** to select the power management options.

- Run the power-management PS2 command.

Terminate all applications being run. Type **\PS2 TRAVEL** at the command prompt and press **Enter**.

Warning: Use of this command can alter some previously set power management options.

Using the Set Advanced Features

If your computer already has the Set Advanced Features installed, you can start the Set Advanced Features with either of the following methods:

- From the Set Advanced Features Menu
- From the command line

From the Set Advanced Features Menu

At the command prompt, type **\PS2** and press **Enter**. The Set Advanced Features Menu appears. Select the desired item from this menu.

From the Command Line

At the command prompt, enter the PS2 command as shown:

PS2 [*Parameter1*] [*Parameter2*]

| <i>Parameter1</i> | <i>Meaning</i> |
|-------------------|--|
| SET | Stores the command you enter, and remains in the computer memory even if the power switch is turned off. |
| ? Help | Displays the format of all available commands. |

| <i>Parameter2</i> | <i>Options</i> |
|-------------------|-------------------|
| BEep | ON OFF |
| DEFAULT | — |
| DISCHARGE | — |
| DISK | XX minutes (0-20) |

| | |
|--------------------------|---------------------------------------|
| DISPlay | Color Mono |
| LCd | XX minutes (0-20) |
| LOW battery alarm | ON OFF |
| MODEM | ON OFF |
| OFF | — |
| ON at | HH:MM:SS Clear |
| Power | XX minutes (0-20) |
| SCreen | HCRT LCD CRT BOTH HLCD |
| SErial | ON OFF |
| SPeed | AUTO MAX |
| VEXpansion | ON OFF |
| TRAVEL | — |

The following are some command examples.

| Command | Meaning |
|--|---|
| <hr/> <i>Main Menu</i> <hr/> | |
| PS2 | Displays the Set Advanced Features Main Menu. |
| <hr/> <i>Suspend Mode</i> <hr/> | |
| PS2 OFF | Immediately enters suspend mode. |
| <hr/> <i>Resuming Normal Operation</i> <hr/> | |
| PS2 ON 19:15:01 | Resumes normal operation at 7:15:01 p.m. |
| PS2 ON | Shows the current setting of resume time. |

| Command | Meaning |
|-------------------------|--|
| PS2 ON C | Resets the resume time. |
| <i>Power Management</i> | |
| PS2 DEFAULT | Resets all the power management options to their default values. |
| PS2 DISCHARGE | Sets the parameters suitable for discharging the battery pack. |
| PS2 MODEM OF | Turns off the internal data/fax modem or the optional serial adapter. Parameters are stored in memory. |
| PS2 SET DISK 3 | Sets the power-off time for the hard disk to 3 minutes. Parameters are stored in memory. |
| PS2 SET LC 10 | Sets the power-off time for the LCD and its backlight to 10 minutes. Parameters are stored in memory. |
| PS2 SE OF | Turns off the onboard serial adapter. |
| PS2 SET PO 15 | Sets the system to enter suspend mode in 15 minutes. |
| PS2 SP AUTO | Sets the processor speed to Auto (long battery life). |
| PS2 SP MAX | Sets the processor speed to its maximum. |

| Command | Meaning |
|------------------------|--|
| PS2 TRAVEL | Sets the parameters to extend battery operation time. |
| <i>Beep Control</i> | |
| PS2 BE ON | Sets the power controller beep to on. |
| PS2 BE OF | Sets the power controller beep to off. |
| PS2 LO ON | Sets the low battery alarm on. |
| PS2 LO OF | Sets the low battery alarm off. |
| <i>Display Control</i> | |
| PS2 SET DISP M | Sets the LCD to mono. Parameters are stored in memory. |
| PS2 DISP C | Sets the LCD to color emulation. |
| PS2 SC BOTH | Displays data on both LCD and attached external display. |
| PS2 SC CRT | Displays data only on the attached external display. |
| PS2 VEXP ON | Enables the alphanumerics vertical expansion. |

Starting the System Programs

To start the system programs from the hard disk, follow these instructions.

1. Make sure that the computer is turned off.
2. Remove any diskette from the diskette drive.
3. Turn on the computer.
4. Watch closely the flashing cursor in the top-left corner of the screen. When the cursor jumps to the top-right corner of the screen, press and hold **Ctrl+Alt**, then press **Insert**. You must do this immediately after the cursor moves to the top-right corner of the screen. Release the keys.

The Main Menu appears on the screen.

Power-On Password

If a power-on password is set, the computer will respond with either of the following.

- Each time you turn on the computer, the password prompt (O—P) appears on the screen.
- After returning to normal operation from suspend mode, the password prompt also appears on the screen.

Type the correct password and press Enter for both of the above.

To change or remove the power-on password, follow these instructions.

Changing the Power-On Password

Note: You cannot change a power-on password after resuming normal operation. You must change it after the computer is turned on.

Important

Be sure to note your new power-on password. If you forget it, you cannot reset it by any means. You have to take the computer to IBM or an IBM authorized dealer to have the password canceled. Proof of purchase is required and you may also be charged for this service.

1. Turn off the computer, wait at least 5 seconds, and turn it on again.
2. When the password prompt (O-TT) appears, type your *current password* and press the **Spacebar**. Do not press Enter.
3. Type the *new password* (no more than 7 characters) and press the **Spacebar**. Do not press Enter.
4. Type the *new password* again to verify the new password.
5. Press **Enter**.

Removing the Power-On Password

Note: If the computer is in unattended-start mode, you must take the computer out of unattended-start mode before you can remove the power-on password.

1. Turn off the computer, wait at least 5 seconds, and turn it on again.
2. When the password prompt (O-TT) appears, type your *current password*, and press the **Spacebar**.
3. Press **Enter**.

Using the Unattended-Start Mode

A power-on password must be set before the computer is used in the unattended-start mode. (See "Power-On Password" on page 15.)

The unattended-start mode locks your keyboard when the computer is turned on, then allows the computer to load the operating system and any application programs. For security purposes, your keyboard remains locked until you type your power-on password and press Enter.

You must enter the power-on password at the Password prompt *before* you attempt to start the computer with a diskette.

To set the unattended-start mode, do the following:

1. Start the system programs from the hard disk (see "Starting the System Programs" on page 14).
2. Select **Set features** from the Main Menu.
3. Select **Set password and unattended start mode**.
4. Select **Set unattended-start mode**.

When the message

Set unattended start mode?

is displayed, type **Y**.

Note: The Password prompt does not appear if the unattended-start mode is set.

To remove the unattended-start mode, do the following:

1. Start the system programs from the hard disk (see "Starting the System Programs" on page 14).
2. Type your password and press **Enter**.
3. Select **Set features** from the Main Menu.
4. Select **Set password and unattended start mode**.
5. Select **Set unattended start mode**.
When the message
Set unattended start mode?
is displayed, type **N**.

What If the Computer Does Not Work?

IMPORTANT

If this problem determination does not fix your computer problems, consult the "Solving Computer Problems" in the *PS/2 ThinkPad 700 PS/2 Quick Reference*.

| Problem | Check / Action |
|---|---|
| Blank screen on the LCD plus one beep. | Verify that both the brightness and contrast controls on the computer are properly adjusted. |
| Blank screen plus no beeps. Note: If you are not sure about the beeps, turn the computer off, then on again, and listen for the beep. | Verify that: <ol style="list-style-type: none">1. The battery pack is correctly installed.2. The AC adapter is connected to the computer and the power cord is plugged into a working electrical outlet.3. The computer power switch is turned on.4. The speaker volume control is set to the rightmost (loudest) position. If the above items are correct and the screen remains blank, have the computer serviced. |

| Problem | Check / Action | Problem | Check / Action |
|---|---|--|---|
| Blank screen on the external display. | <p>Verify that:</p> <ol style="list-style-type: none"> 1. The power cord for the external display is plugged into a working electrical outlet and into the external display. 2. The external display is turned on and the brightness and contrast controls for the display are turned up. 3. The signal cable for the external display is plugged into the external display connector on the computer. <p>If the above items are correct, check the setting of the <i>Display device</i> parameter for the Set Advanced Features. The setting must be CRT, CRT(High Performance), or LCD and CRT. To access the Set Advanced Features:</p> <ol style="list-style-type: none"> 1. At the command prompt, type !PS2 and press Enter. 2. Select 1 at the Set Advanced Features Menu and press Enter. | The computer goes to suspend mode immediately after the POST. (The suspend mode indicator turns on.) | <p>Verify that:</p> <ol style="list-style-type: none"> 1. The battery pack is charged. (The battery power status indicator is green or yellow.) 2. The environmental temperature is suitable. |
| | | All keys on the keyboard do not work. | The keyboard does not work after the computer returns to normal operation from suspend mode if the power-on password is set. Enter your power-on password. |
| | | The power-on light is blinking. | The computer was forced into suspend mode because the inside temperature has exceeded the normal operating range. Turn off the computer and place it in the acceptable temperature range for a while. |
| | | The battery power status indicator is turned off although a fully charged battery pack is installed in the computer. | The over-current protection device inside the battery pack has been activated. Wait for several hours and use it again. If the problem still appears, replace the battery pack or have the computer serviced. |
| The LCD and the attached external display does not work at the same time. | <p>If the <i>CRT</i> or <i>LCD</i> is specified to be active, you need to change the <i>Display device</i> parameter of the Set Advanced Features to LCD and CRT.</p> <p>Type PS2 SET SC BOTH at command prompt and press Enter.</p> | A number appears after typing an alphabetic character. | The Numeric Lock indicator is on. Press and hold Shift , then press NumLk . |
| | | The onboard (built-in) serial adapter does not work. | Ensure that <i>Onboard</i> is set to On in the Set Advanced Features. |

| Problem | Check / Action |
|---|--|
| The battery charging indicator is turned on; along with a blinking orange battery power status indicator. | <p>A problem has occurred while charging the battery pack.</p> <ul style="list-style-type: none"> • Check to see if the AC adapter is correct and suitable for your computer. • Take the battery pack out of the compartment and let it cool for a while, then charge it again. <p>If the problem still appears, have the computer serviced.</p> |
| The internal data/fax modem or optional serial adapter does not work. | <ul style="list-style-type: none"> • Verify that the internal data/fax modem or the optional serial adapter is correctly installed. • Ensure that <i>Optional</i> is set to On in the Set Advanced Features program. |

| Problem | Check / Action |
|------------------------|--|
| 00030X00 is displayed. | <p>Turn off the computer and all the attached devices. Turn on the computer first, then turn on the attached devices. If the problem remains, go to the Main Menu and select <i>Test the computer</i> to test your system.</p> <ul style="list-style-type: none"> • If the computer has the external keyboard connected, verify that: <ol style="list-style-type: none"> 1. The external keyboard is connected to the correct side of the keyboard/mouse connector. 2. The keyboard/mouse connector is properly connected to the computer. <p>If the above items are correct, disconnect the keyboard/mouse connector from the computer and verify correct operation with the system keyboard. If the system keyboard works, have the keyboard/mouse connector or the external keyboard serviced.</p> <ul style="list-style-type: none"> • If you cannot go beyond the first screen, have the computer serviced. • If the computer stops during testing and does not continue, have the computer serviced. |

| Problem | Check / Action |
|---|---|
| I9990301 or I9990302 or I9990305 is displayed. | <p>The computer cannot find the startup drive.</p> <ol style="list-style-type: none"> 1. Turn off the computer and insert the backup copy of the Reference Diskette, then turn on the computer. 2. Select Set features from the Main Menu, then select Set startup sequence. 3. Check the list of devices on the Set startup sequence screen. Is the default drive in the startup sequence? <ul style="list-style-type: none"> Yes Exit from this screen and the Main Menu. Remove the backup copy of the Reference Diskette and turn off the computer. Continue with step 4. No Follow the instructions on the screen to add the default drive. 4. Is an operating system installed? <ul style="list-style-type: none"> Yes Go to step 6. No Install the operating system in your computer. 5. When the operating system is installed, turn off the computer. 6. Turn on the computer. <p>If the same error message appears, have the computer serviced.</p> |

| Problem | Check / Action |
|--|---|
| I99800XX or I99900XX or (I99900X5, see note) or I9990303 is displayed. | <p>The computer cannot find the system programs.</p> <ol style="list-style-type: none"> 1. Turn off the computer. 2. Insert the backup copy of the Reference Diskette. 3. Turn on the computer. <p>Note: If you have an I99900X5 error, a power-on password was previously set. You must type the password and press Enter before continuing with the next step.</p> <ol style="list-style-type: none"> 4. Select Backup/Restore system programs; then select Restore the system partition. 5. When this procedure is complete, turn off the computer and remove the backup copy of the Reference Diskette. 6. Turn on the computer. <p>If the same error message appears, have the computer serviced.</p> |