

The contents of this tutorial may not reflect revisions to the product or software, but the basic principles of the procedures shown are still applicable. If there are any questions about the procedures, refer to the maintenance manual shipped with the product.

The Saturn 2000 Maintenance Tutorial is designed to allow you to perform routine instrument maintenance operations while interactively viewing the procedures on your computer screen. The tutorial covers most of the routine maintenance operations that can be performed by customers. At the core of the tutorial is a set of interactive instructional videos. The tutorial allows you to either watch a procedure in its entirety or follow along with the steps as they are being shown. A Help screen that allows you to learn about the operation of the user interface is accessible from any point in the tutorial. These instructions describe the use of the tutorial in detail.

System Requirements and Installation Instructions

See the README file on the CDROM.

Running the Tutorial

If the tutorial and the MS Workstation have both been installed, go to the Start button and select the item Programs→MS Workstation→2000 Documentation→ Saturn 2000 Maintenance Tutorial (see Figure 1).

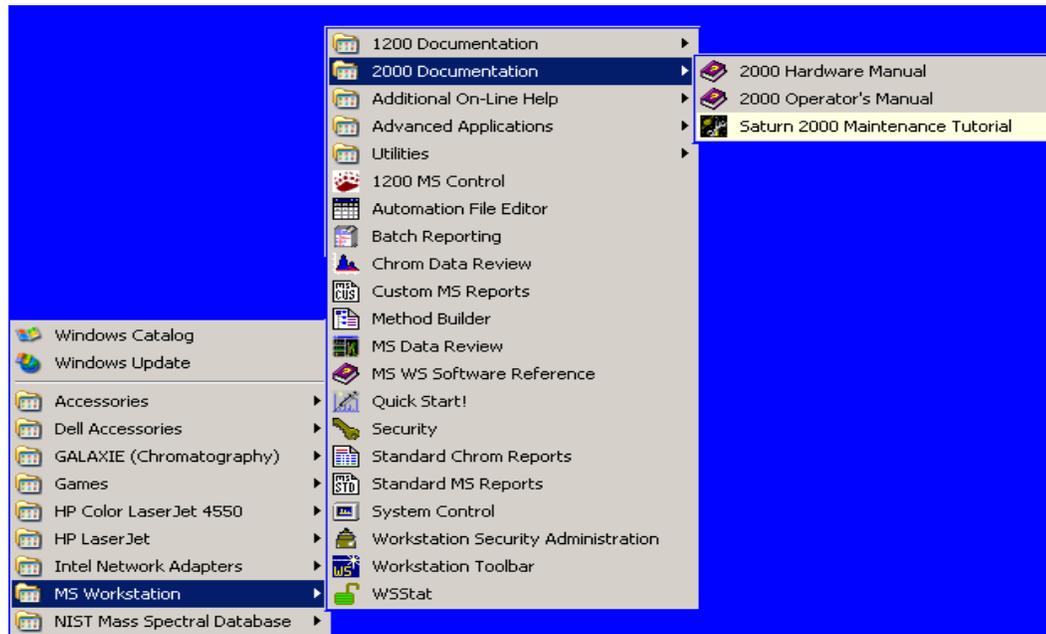


Figure 1 Starting the Saturn 2000 Maintenance Tutorial

The tutorial can be run directly from the CD-ROM by inserting the CD-ROM or clicking on the CD icon (usually in My Computer) if the CD is in the CD-ROM drive.

Main Menu

The Main Menu is the jumping off point for accessing most of the individual tutorials. This is the screen that is displayed when you first start up the tutorial. **NOTE: The opening animation can be skipped by clicking anywhere on the screen when the animation is playing.** In this screen you can jump to any of the major topic areas or select an Introduction that provides an overview of the tutorial and other general information. To select a major topic area click on a topic button. You can return directly to the main menu by pressing the Main Menu button on most of the tutorial's pages.

Topic Selection Screens



Figure 2 Topic Selection Screen

Selecting a topic area from the main menu brings one to a topic selection screen (Figure 2) that allows you to choose a procedure related to the main topic area selected.

Procedure Screens

The procedure menu screens (Figure 3) are where you view a specific tutorial. A variety of interface elements are provided to allow you to navigate through the tutorial in a manner which best suits your knowledge and working style. The key navigation elements provided are an interactive procedure outline, control buttons and a VCR like video control bar.

Interactive Outline

The Interactive Outline allows you to jump to a specific step of the procedure or select groups of steps for viewing. The Outline consists of all the steps needed to perform a procedure, nested into sub-procedures. The major procedure headings are shown at all times. One indented set of individual steps can be shown at a time. The expanded set will have a Minus box next to the major heading. All other sets will have Plus boxes next to the major heading. To expand a set, click on the “+” box. To hide the individual steps, click the “-” box. When one clicks on a major heading it will turn green and all steps within that sub-procedure will be shown without stopping. To view an individual step one should click on that step’s description. The description will turn orange and the video will play until that step is completed.



Figure 3 Procedure Screen

Control Buttons

A set of control buttons allow you to navigate through the videos. When a procedure screen is first selected, only a **Start** and **Continuous/Step Mode** button are present and the video window is hidden. Pressing the **Start** button will initiate display of the first group of procedures. From this point on, this button becomes a **Pause/Resume** button. While a video is playing, pressing **Pause** will stop the video at the point where the button is pushed. Pressing **Resume** will start the video playing from whatever point it has been paused.

The **Continuous/Step Mode** button allows you to determine whether the video pauses after every step or group of steps or whether the procedure videos play continuously to the end from whatever point they are started. When the tutorial is first run it defaults to Step Mode. Pressing the **Continuous** button will switch to Continuous mode. Pressing **Step Mode** will switch back to step mode. If a group of steps is currently being played, pressing the step mode button will cause the video to stop after the selected step is shown.

Once playing of the videos has been initiated, three additional buttons appear on the screen; **Previous**, **Repeat** and **Next**. Pressing **Previous** plays the step previous to the one currently being played. If the step being played is the first of the outline, then the **Previous** button will be hidden. Pressing the **Repeat** button causes the current step to be repeated. If the video for the current step is being played, the video will jump to the beginning of that step. The **Next** button will initiate playing of the next step in the sequence. If the last step of the outline is being played the **Next** button will be hidden. The Outline Step, highlighted in orange, will change to reflect the steps selected with these buttons.

Video Controller Bar

Once the playing of the videos has been initiated a video controller bar (Figure 4) will appear under the video display, This bar works very much like the controls of a VCR to allow one to move through the video. Grabbing the control slider with the mouse and moving it right or left will move the video forward or backwards respectively. The highlighted outline step will change depending on where in the video you are. The volume button on the far left allows one to control the level of the sound being played. The Start/Stop control to the right of the volume control works the same as the **Pause** and **Resume** buttons described above. On the far right are step forward and step backwards buttons. Pressing on these buttons when a video is stopped, will step the video in small increments.

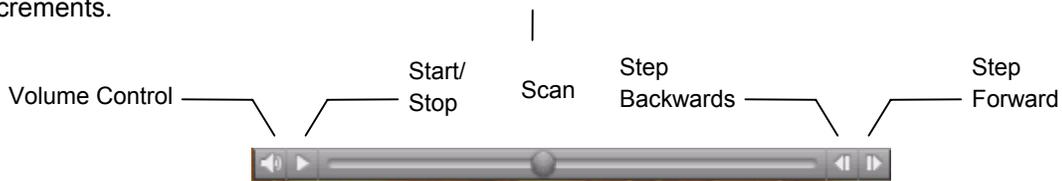


Figure 4 Video Controller Bar

Subtitles

A Subtitle box can be displayed under the video window. This box displays text that corresponds to the narration being played in the video. The subtitle box can be turned on or off using the Subtitle pulldown menu.

Help Screen

A help screen can be displayed from any point within the tutorial by pulling down the Help menu and selecting **Instructions**. To view help on any screen feature move the cursor over a feature and the cursor will turn into a question mark. Click on the mouse and a text box will appear describing the feature. Click anywhere on the screen to make the text disappear.

To close the help screen, press the **RETURN** button on the Help page or press the close button on the help window.

Troubleshooting

No Sound	<p>Check to be sure that the sound volume controller on the movie control bar is not turned down.</p> <p>Separately check the sound card to be sure that it is working properly and that there is no conflict with the Saturn 2000 software. An easy check is to run the Multimedia player from the Start Button Programs→ Accessories menu and play the Microsoft system sound.</p>
No Video	<p>Be sure that the QuickTime 5.0 or higher driver has been loaded on the system. If in doubt, run the QuickTimeInstaller program from the CD-ROM directory requirements/Quicktime 5.</p>

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