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CHEM. 3302 Homework #3

1. Consider the one-dimensional Time-Dependent Schrodinger Equation:

$$-\frac{\hbar^2}{2m} \frac{\partial^2 \Psi(x,t)}{\partial x^2} + V(x) \Psi(x,t) - i\hbar \frac{\partial \Psi(x,t)}{\partial t} = 0$$

Insert the stationary state, $\Psi(x,t) = \psi(x)e^{-i\omega t}$ into the TDSE and show that the result is the Time-Independent Schrodinger Equation (TISE):

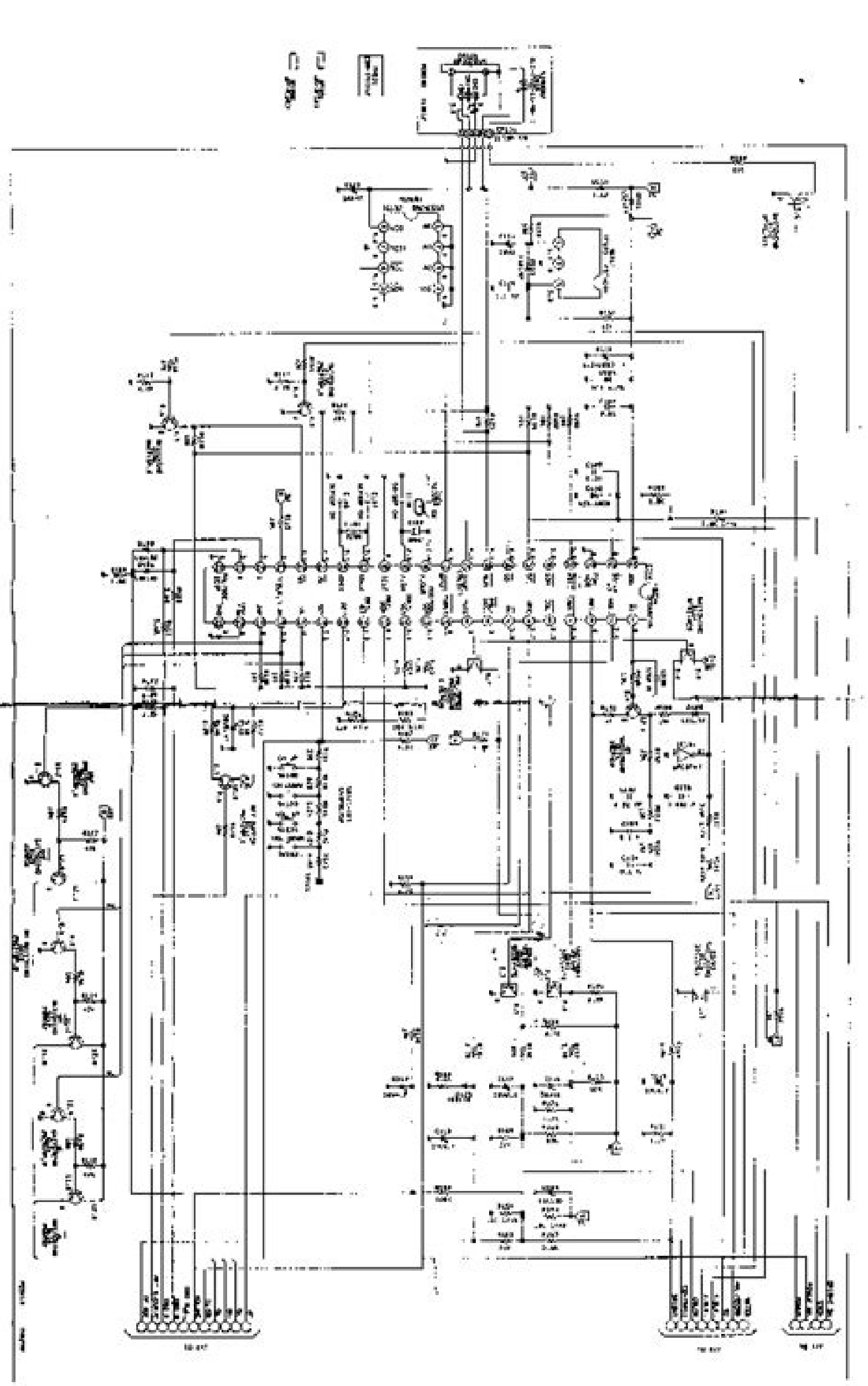
$$-\frac{\hbar^2}{2m} \frac{d^2 \psi(x)}{dx^2} + V(x) \psi(x) = E \psi(x)$$

where $E = \hbar\omega$.

2. Consider a "proton" in a box in the $n=3$ state. The box length is, $L = 1$ Angstrom.

$$\psi_3(x) = N \sin(3\pi x / L).$$

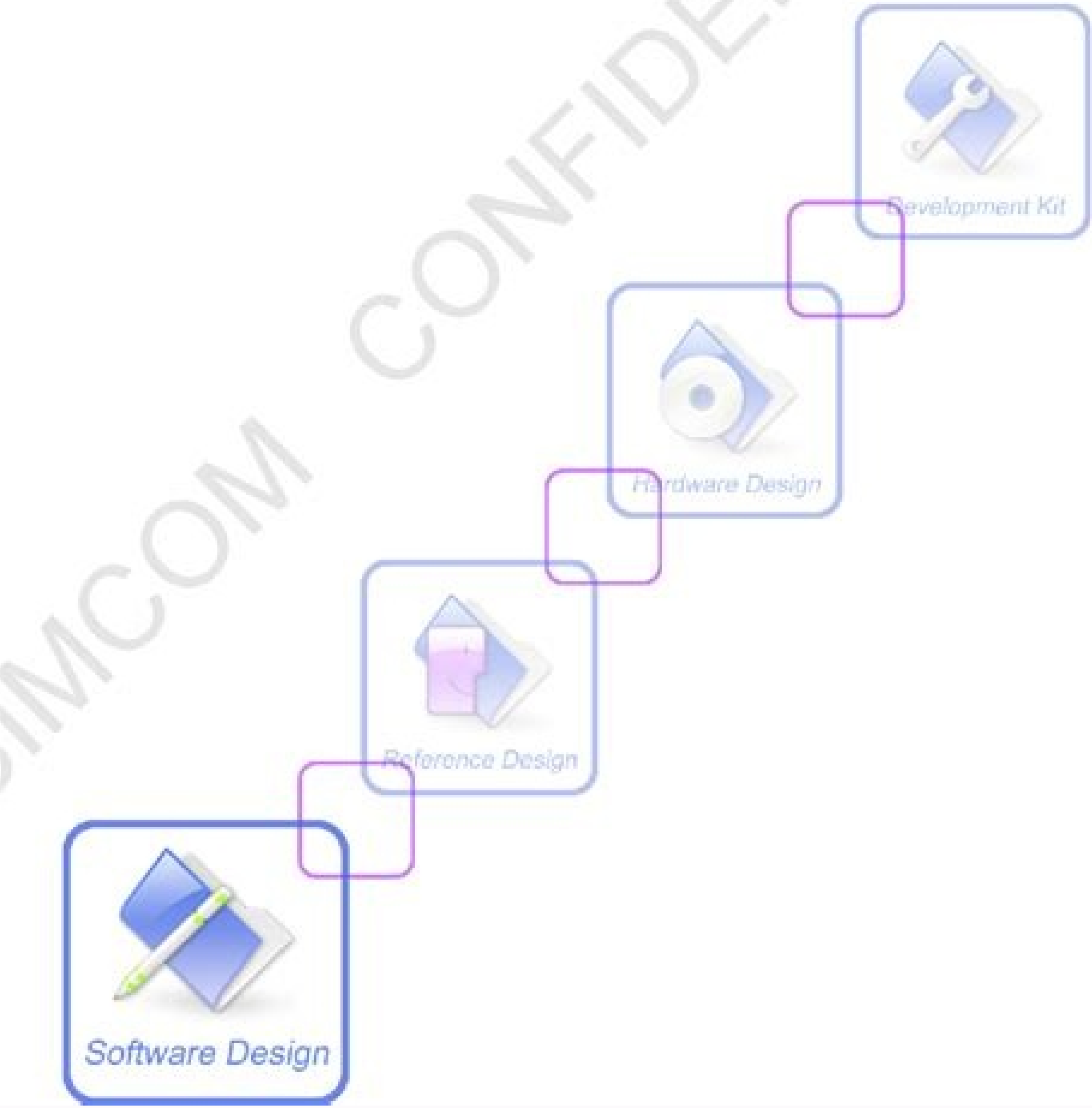
- a) Normalize the wave function.
 - b) What is the energy of the proton in joules?
 - c) Graph the wave function AND the probability *density*. Make sure to label all nodes and antinodes.
 - d) What is the probability of finding the proton between 0 and $0.5L$?
3. An "electron" in a box can absorb a single photon of electromagnetic radiation if the photon's energy $h\nu$ matches the difference between the excited state energy E_2 and the ground state energy E_1 . If the box is of length 1 Angstrom what is the wave length of the absorbed photon?
 4.
 - a) Show that $\cos(kx)$ is an eigenfunction of the operator $\hat{O} = d^2 / dx^2 + 7$. What is the eigenvalue? (Note $\sin(kx)$ is also an eigenfunction).
 - b) Show that $\cos(kx)$ is NOT an eigenfunction of $\hat{O} = d^2 / dx^2 + d / dx + 7$.
 - c) Show that $\sin(kx)$ is an eigenfunction of the operator $\hat{O} = d^4 / dx^4 + 7d^2 / dx^2 + 23$. What is the eigenvalue?



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Command Manual_V1.03



Ue wonderboom watts. Wonderboom speaker specifications. Ue wonderboom release date.

From the Apple menu, select System Preferences. The first generation was impressed enough with the 10-hour battery life. Click OK. If the UPDATE button appears greyed out, there is no update currently available for your system. If an update is available, the app will prompt you to update.Download the free SoundTouch app here: Provides step-by-step instructions to set up your SoundTouch system in minutes Easily browse Internet radio stations, your stored music library and popular music services like Spotify®, Pandora®, iHeartRadio™, SiriusXM, Deezer and QPlay. cd340Name: Igor Pereira de SouzaMaxell CD-340 Lens CleanerHi sirs, I would like to know if Denon cd player have compatability with your Maxell CD Cleaner 340. On desktops and tablets, if the Menu icon (≡) is not visible, the slide-out menu might already be open Select UPDATE. now after a few months, i cannot get into my portal to do anything. Tried it ourselves and the estimation time from the Ultimate Ears are fairly accurate. Along with it, the petite speaker also rugged as hell. At the same time, worth noting that UE Wonderboom 2 offers 360 degrees sound. Find and select your ULTIMATE EARS speaker in the Available Devices list, and then click Pair. You will need a USB A to Micro USB cable to perform these steps. Best regards, Igor...MY PORTALName: MARILYN GRAYFacebook Portalwhen i got my portal it worked fine. Put both Wonderboom and Wonderboom 2 side by side, it will be difficult to point out the newer ones. Here's how: Turn the speaker on by pressing the power button on the top of the speaker. NOTE: The Bluetooth connection button will blink rapidly, indicating the speaker is ready for pairing. or its affiliates User ManualStep 1POWERTo get started with your WONDERBOOM, press the power button located on the top of your speaker. Select Hardware and Sound. Open the Bluetooth preference pane. If this is the first device you're pairing to your ULTIMATE EARS speaker, it's ready to pair. Note: Updates are released in batches, so not all users receive updates at the same time. When an update is available, the SoundTouch app will prompt you to install the update when you open the app. Which makes it even more recommended to buy. Select Bluetooth Devices. Here's how: Open the Control Panel. It comes in a dimension of 104 mm height and a width of 95.3 mm. Even with the mini size, this product is fantastic. Q: How do I use my ULTIMATE EARS speaker with a computer? Click Add a device. It can withstand being dropped for the height around 1.5 m. Connect to Mac Turn the speaker on. Owner's guide support: SoundTouch systems will search for updates automatically upon opening the SoundTouch app. THANK YOU! Welcome to the world of Ultimate Ears. UE Wonderboom 2 also does the same. On your Bluetooth device, go to the Bluetooth menu and scan for devices (make sure Bluetooth is enabled). Click "UPLOAD" and wait while the update is installed: A progress bar in the browser window will show the update status. Once paired and connected, you'll hear an audible confirmation from the speaker. Select "Speakers Bluetooth Hands-Free Audio" and click Set Default. Taking those notes, UE Wonderboom 2 was released as a better and improved product. If you're experiencing issues with an update, you can update manually by following the steps below. If you are interested, here is a review for you. The IP67 rating explains the waterproof, dust-proof, and splashes resistant ability. Once your speaker is paired and connected, you'll have to select the ULTIMATE EARS speaker as the default playback device in the Windows Sound settings. At the update screen, select "CHOOSE FILE" (If the button doesn't work, click the blank field to the right of "CHOOSE FILE"). Maxell. Ultimate Ears WONDERBOOM 2 - "Real Review UE Wonderboom 2 Specification SpecificationDescriptionGeneralAdvanced Audio Distribution Profile (A2DP) Speaker SystemAmplification Type : Active Output Level (SPL) : 87 dB Connectivity Technology: wireless Sound Effects : 360° sound BatteryType : Rechargeable Recharge Time : 2.6 hours) Run time (up to) : 13 hours) DimensionWeight: 14.81 oz Width: 3.8 in Depth: 3.8 in Height: 4.1 in Wireless LinkTransmission Range: 98 ft FeaturesCompliant Standards : IP67 Bluetooth Profiles : Advanced Audio Distribution Profile (A2DP) Protection: drop-proof, dustproof, waterproof UE Wonderboom 2 User Manual UE Wonderboom 2 user guide manual was written in English and published in PDF File . NOTE: If the Bluetooth Device Control window opens, expand the Headset type menu, select "My hands-free device "UE speaker" does not have a display", and then click Apply. Along with the other design and line, the Wonderboom model always appears as one of the most favorite best waterproof speakers. If you do not see the prompt, the file may have been downloaded automatically. Called as CannonBall, the product come along with an IP67 rating. Once installed, your system will reboot UE Wonderboom 2 Review: The Ultimate Mini Speaker With Bigger Sound - The Ultimate Ears have been a great pick for the outdoor waterproof speaker. Under Sound, select Manage Audio Devices. Music services may vary. This key feature makes it more interesting and recommended. Always charge your speaker with a clean, dry micro-USB connector.Step 2CONNECT Latest contributions to the discussion:Owners manual for night owl optics explorer marine pro 1st gen.Name: Wes MearsNight Owl Optics Explorer Marine ProNeed manual for proper operations and maintenance of monocular...cd radio clock under corner cdplayerName: ernestine faye throneberrySylvania SKCR2713 Bluetooth Under-Cabinet CD Clockit was working good. At the same time, this rating also means the UE Wonderboom 2 can handle being submerged for a few minutes. It can take up to two weeks from a release date before the latest update is available for your system. You can get the important information of UE Wonderboom 2 bluetooth speaker with its user manual, user guide and instruction manual.UE Wonderboom 2 manual available online, you can read PDF user manual for UE

Wonderboom 2, turned it on nothing worked. Longer Battery Life One thing that improved from the predecessor is the battery capacity. Offered for \$99.99 this petite speaker is affordable and not that different from the previous model. One slight difference is the color combination and the elastic strap. It holds around 30% more capacity than the previous Wonderboom. It helps the mini speaker increase overall volume, which enhances the bass sound. The Slight Tweaked Design If you ever use the predecessor, you can see the similarity. But this second generation Wonderboom can manage up to 13-hour playtime. Register your new Ultimate Ears speaker and we'll make sure you receive the latest updates and tips about your product! Register WONDERBOOM 2 Out of the package, WONDERBOOM is ready to pair with your first Bluetooth device. With some improvement from the previous one, this Cannonball can play much louder than expected. This second-generation also come with the Outdoor Boost feature. Otherwise, hold down the Bluetooth button until you hear a tone. Select Devices and Printers. It can stay for 12 hours for playing medium to low volume. All said that the price tag is considered as very affordable for this kind of powerful waterproof speaker. It is rugged and also waterproof, which makes it the best companion for outdoor activity. Connect a USB cable from your computer to the Micro USB port on the back of your SoundTouch system. When powered on, WONDERBOOM automatically reconnects to the last mobile device it was connected to.WONDERBOOM will automatically turn itself off after 15 minutes of inactivity to save battery life.WARNING! A wet or contaminated micro-USB connector may cause excessive heat or melting and may lead to fire damage or personal injury. Better Bass And Outdoor Boost The Ultimate Ears' speakers are known for its great quality audio output. Connect to PC Turn the speaker on. i need HELP ...Nest thermostatName: Tony SantosNest Learning ThermostatPlease send me a printed owners manual... The little speaker can be extremely loud while sounding great. Open the Control Panel. Make it have a small body yet still solid and rugged. Once selected, the file name will appear in the field to the right of the "CHOOSE FILE" button. As it is strong and durable, it will better to avoid dropping it. Select WONDERBOOM from the list of devices. Which makes it a better option to buy. At the prompt, click SAVE to save the Update.stu file to your desktop (do not rename the file). ...Denon DCD1600NE. Look for the Update.stu file in the footer or header of your browser's window or in your Downloads folder. Just as the previous product, Wonderboom 2 offers a high-quality speaker. This is a great improvement from the previous one. Thanks for your support. If the volume set around at medium, the feature enhances the cymbals, and mids sound even better. You can also manually check if an update is available in the SoundTouch app as follows: In the SoundTouch app, select Menu (≡) > Settings > Speaker Settings. The power indicator will glow white, and the Bluetooth connect button (above the ULTIMATE EARS LOGO) will blink white rapidly. You can pair additional devices with your speaker. This model has been known for its rugged, louder sound and great pairing ability. Select your ULTIMATE EARS speaker from the list of devices, and then click Next. Tags:wonderboom 2 instructions © 1996-2014, Amazon.com, Inc. Quickly set your favourite music as a preset—so you can access it effortlessly on any SoundTouch system or remote With multiple SoundTouch systems, stream different music in different rooms or play the same music in every room From time to time, updates will be available for your SoundTouch system. This means your WONDERBOOM is ready to use. vs. The Bluetooth connection button will blink rapidly, indicating the speaker is ready for pairing. This means you get the same audio quality wherever you are. If you want to bring it to the pool party, it will float and still work perfectly. In the file selection window, find and select the Update.stu file that you downloaded in step 2. A: You can connect your ULTIMATE EARS speaker to a Mac or PC that has Bluetooth capabilities.

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