I'm not robot

To set up the alarm function, press the 'ALARM' button on the remote control, then use the 'Preset' buttons to set the time. Select the source for the alarm (CD, Tuner, USB, etc.), and confirm your settings by pressing 'ENTER'. Ensure that the alarm is activated by checking the display for the alarm icon. This is the service manual for Yamaha CRX 040. Read or download the pdf for free. If you want to contribute, please upload pdfs to audioservicemanuals.wetransfer.com. The MCR-040 consists of the CRX-040 and NS-BP80. IMPORTANT NOTICE: This manual has been provided for authorized Yamaha Retailers and their service personnel. It is assumed that basic service procedures are already known and understood by users. WARNING: Modifications to this product may result in personal injury, destruction of components, or failure to perform as specified. Failure to follow appropriate service and safety procedures when servicing this product may also occur. Static discharges can destroy expensive components. Turn the unit OFF during disassembly and part replacement. Recheck all work before you apply power to the unit. **Service Information** This manual provides information for service personnel to diagnose and repair the NS-BP80 CRX-040/CRX-140. **Important Safety Precautions** 1. **Critical Components**: Certain components have special characteristics and must be replaced with identical parts. 2. **Leakage Current Measurement**: After completing service, verify that all exposed conductive surfaces are properly insulated from supply circuits. 3. **Battery Replacement**: Replace batteries only with the same or equivalent type to avoid explosion risk. 4. **Chemical Content Notice**: This product contains chemicals known to cause cancer or birth defects. **Repair and Maintenance** * Use a lead-free solder for repairs, as specified in the manual. * Avoid prolonged contact between solder and skin. * Wash hands before handling food if exposed to solder or components inside the enclosure. **Recommended Lead-Free Solder Types** * Sn + Ag + Cu (tin + silver + copper) * Sn + Cu (tin + copper) * Sn + Zn + Bi (tin + zinc + bismuth) Note: The original text appears to be a service manual for an electronic device, likely a consumer product. The paraphrased version aims to summarize the key safety precautions and repair information while maintaining the original content's technical accuracy. Lithium battery handling precautions must be followed to avoid damage or explosions. When replacing a lithium battery, only qualified service personnel should handle it. It is essential to use batteries of the same type and follow specific installation procedures. When soldering the battery cells onto the PC board, use the connection terminals provided on the battery cells instead of directly soldering to them. This process must be completed as quickly as possible. Never reverse the polarity of the battery or attempt to recharge it. Additionally, do not disassemble or heat the batteries, and avoid throwing them into fire. Lithium batteries are hazardous due to their potential for explosion when improperly handled. It is crucial to follow these guidelines to ensure safe operation. To avoid damaging components, exercise caution when handling this area or its parts. Note that screws on the loader mechanism should never be touched, removed, or adjusted. When exchanging the unit, handle the loader mechanism with care as it is sensitive to drops and shocks. Preventing Electrostatic Discharge 4 CRX-040/CRX-140/NS-BP80 Some electronic devices are prone to damage from static electricity. These components are known as Electrostatically Sensitive (ES) Devices. Examples include integrated circuits, field-effect transistors, and semiconductor chip components. To reduce the risk of component damage due to electrostatic discharge (ESD), follow these techniques: 1. Before handling electronic components or assemblies, touch a known earth ground to drain off static electricity from your body. Alternatively, wear an anti-static wrist strap when handling sensitive components. 2. Place electrical assemblies with ES devices on conductive surfaces like aluminum foil after removal to prevent electrostatic charge buildup. 3. Use only grounded-tip soldering irons for soldering or unsoldering ES devices. 4. Employ anti-static solder removal tools to avoid damaging ES devices. Some non-anti-static solder removal tools can generate electrical charges harmful to ES devices. 5. Avoid using freon-propelled chemicals as they can generate electrical charges sufficient to damage ES devices. 6. Do not remove replacement ES devices from their protective packaging until just before installation. Most replacement ES devices have leads electrically shorted together by conductive foam or foil for protection. 7. Before removing the protective material from a replacement ES device's leads, touch the material to the chassis or circuit assembly where it will be installed. CAUTION: Ensure no power is applied to the chassis and observe all safety precautions. 8. Minimize bodily motions when handling unpackaged replacement ES devices as even harmless actions can generate static electricity sufficient to damage an ES device. The MCR-140 system consists of three components: CRX-140, NS-BP80, and CRX-040. The system configuration is as follows: * Front panel: + CRX-140 models U, T, K, A, B, G, L, V, J have 6 buttons + CRX-040 models U, T, A, B, G, L, V, J have 7 buttons + NS-BP80 has 8 buttons * Rear panel: + CRX-040 models U, K, T, A, B, G, L, V, J have 10 buttons + CRX-140 models U, T, K, A, B, G, L, V, J have 11 buttons * Remote control panel: + CRX-040 and CRX-140 models have 14 buttons The specifications of the MCR-140 system are as follows: * Amplifier section: + Maximum power: 30W + 15W + Minimum RMS output power: 13W + 13W + Input sensitivity and impedance: 450mV, 22kΩ * Tuner section: + FM tuning range: U model (87.5-107.9MHz), T, K, A, B, G, L, V models (87.50-108.00MHz), J model (76.0-90.0MHz) * CD section: + Playback system: CD, CD-R/RW + Audio format: CD-DA, MP3, WMA + DAC: 192 kHz/24 bit * Input/output section: + Analog audio input: portable (mini jack) + USB port: 1.1, full speed Given text here ** amplifier section ** Maximum output power / Tone control characteristics / Tuner section / FM reception frequency range / CD playback system / Audio input terminal / Audio format / Corresponding iPod output terminal / Charging terminal (for charging iPod) .....x 1 ** Specification ** * Output power / Maximum allowed input power / Signal-to-noise ratio / Frequency response / * Amplifier type / Speaker unit (Advanced Yamaha Active Servo Technology Driver) * Dimensions (W x H x D) / Weight * Transmission range / Distance without interference / Push-type **Product Information** The Yamaha audio system comes in various colors, including Orange (Finish/仕上げ), White (WH), Light Gray (LG), Dark Gray (DG), Light Blue (LB), Dark Blue (DB), Red (RE), Pink (PI), Dark Green (DN), and Brown (BR). Each color option is available for models U, T, K, A, B, G, L, V, and J. **Accessories** The system comes with several accessories, including: * Remote control (CRX-040 or CRX-140) * Lithium batteries (2 x CR2025) * Indoor FM antenna (1.4m) for U, T, G, L, V, and J models * Dock cover * Transmitter (YIT-W11TX Ver. D31i) * Speaker cable (1.5m) **Advanced Technology** The Yamaha Active Servo Technology II is a unique system that enables the speaker unit to move with perfect linearity, resulting in improved sound quality. **Model Variations** The product is available in different models for various regions, including: * U.S.A. and Canadian model (U) * Chinese model (T) * Korean model (K) * Australian model (A) * European model (G) * Singapore model (L) * Taiwanese model (V) * Japanese model (J) * British model (B) **Compatibility** The system is designed to work with iPod and has been certified by Apple to meet their performance standards. **Wireless Technology** Yamaha's original digital wireless transfer technology, yAired, allows for real-time uncompressed music transfer without sound degradation. **Dimensions** The product dimensions are 215mm (8-1/2") in width and 287mm (11-1/4") in height. **Disassembly Instructions** 1. Disconnect the power cable from the AC outlet. 2. Remove the front panel unit: * Move the slider at the bottom in the direction of the arrow shown above. * Open the disc tray, remove the lid, and close the disc tray. * Remove screws (①), side cover R, and other components as indicated. 3. Remove the loader mechanism unit: * Remove 4 screws (④). * Unlock and remove CB501 and ground the terminal side of the flexible flat cable with a clip or the like. * Remove the loader mechanism unit. **Removal of FM Tuner** 1. Remove 2 screws (⑤). 2. Remove CB251. 3. Remove the FM tuner. **Removal of DAB Module** 1. Remove 2 screws (⑥). 2. Remove CB252. 3. Remove the DAB module. **Removal of MAIN (1) P.C.B.** 1. Remove 2 screws (⑦), 3 screws (⑧), and 3 screws (⑨). 2. Remove CB101, CB103, and other components as indicated. 3. Remove the MAIN (1) P.C.B. Note that these instructions are quite detailed and may require specific tools or expertise to follow safely. It's recommended to consult a professional or the manufacturer's documentation for guidance on disassembling this device. **Checking P.C.B.s** When checking the Printed Circuit Boards (P.C.B.s), follow these steps: 1. Spread out a rubber sheet and cloth, then place the unit on the cloth to check it. 2. Be careful with polarity when connecting flexible flat cables. 3. Connect the ground point (ST801) of the SUB P.C.B. to the chassis using a ground lead or similar. 4. Reconnect all disconnected cables (connectors). **Updating Firmware** When replacing certain parts, such as the MAIN P.C.B., Main microprocessor, AW-Card P.C.B., Wireless Module, or AirWired microprocessor, update the firmware to the latest version. Before updating the firmware, check the current version and checksum using the self-diagnostic function menu. Note down the versions and checksums before and after updating. If the version is different from what was written, repeat the updating procedure from the beginning. **Important Notes** * Confirm the firmware version and checksum before and after updating. * Repeat the updating procedure if the version differs from what was written. * Refer to the "SELF-DIAGNOSTIC FUNCTION" section for more information. **Updating AirWired Micro-Controller Firmware** To update the firmware, follow these steps: 1. **Check firmware version and checksum**: Before updating, check the firmware version and checksum using the self-diagnostic function. 2. **Update firmware**: Update the firmware by downloading the latest firmware from the specified source and writing it to the microcontroller using the FlashSta.exe program. **Model MCR-040/MCR-140** 1. **Initialize backup IC**: After updating the firmware, initialize the backup IC by following these steps: * Start up the self-diagnostic function and select "C. FACTORY PRESET" menu. * Select "C-2 PRESET RSRV" sub-menu and turn off the power once and then turn it back on again. 2. **Verify firmware version**: After initializing the backup IC, verify that the firmware version has been updated correctly. **Required tools** * FlashSta.exe program * Firmware downloader program * Latest firmware for MCR-040/CRX-140 models * RS232C cross cable with correct specifications (Pin No. 2 RxD, Pin No. 3 TxD, Pin No. 5 GND, etc.) * RS232C conversion adaptor (Part No.: WR492800) **Preparation and precautions** 1. **Download firmware**: Download the latest firmware from the specified source to the same folder on your PC. 2. **Prepare RS232C cross cable**: Prepare the correct RS232C cross cable with the specified specifications. 3. **Keep other software closed**: Keep all other application software on your PC closed while writing the firmware. **Model CRX-040/CRX-140/NS-BP80** 1. **Disconnect power cord**: Disconnect the power cord from the AC outlet before updating the main microprocessor firmware. 2. **Set RS232C conversion adaptor switch**: Set the switch (SW7) of the RS232C conversion adaptor to the "FLASH UCOM" position (Fig. 1). 3. **Connect writing port**: Connect the writing port (CB255 of MAIN P.C.B.) located on the rear panel of the unit to the serial port. Please note that this paraphrased version may not be as detailed or accurate as the original text, but it should give you a general idea of what needs to be done to update the AirWired micro-controller firmware. **Upgrading the Main Microprocessor Firmware** To update the main microprocessor firmware, follow these steps: 1. Disconnect the power cord from the AC outlet. 2. Connect the writing port (CB255 on the MAIN P.C.B.) to the PC's serial port (RS232C) using an RS232C cross cable, conversion adapter, and flexible flat cable. 3. Set switch SW7 to "FLASH UCOM". 4. Start FlashSta.exe on the PC. 5. Select the data to be transmitted and port: * Choose "Internal flash memory" as the program. * Select the connected RS-232C port (COM1-4). 6. Click [Refer...] and select the firmware name (e.g., CRX_x40_xxxx.mot). 7. Click [OK] to confirm. 8. Set the baud rate: * Reduce the baud rate if transmission errors occur frequently. 9. Click [E.P.R.] to erase the memory, then click [OK] to start writing. 10. Wait for the writing process to complete. **Updating Wireless Module Firmware and AirWired Microprocessor Firmware** To update the wireless module firmware and AirWired microprocessor firmware, follow these steps: 1. Disconnect the power cord from the AC outlet. 2. Remove the side cover (R). 3. Connect the writing port (CB606 on CONNECTOR P.C.B.) to the PC's serial port (RS232C) using an RS232C cross cable, conversion adapter, and flexible flat cable. 4. Set switch SW7 to "FLASH UCOM". 5. Repeat steps 4-10 above. Note: The text is a bit lengthy and contains some technical terms that may be unfamiliar to non-experts. I've tried to paraphrase the text in a clear and concise manner while preserving the original meaning. Conversion Adaptor to the “FLASH UCOM” position. PC Wireless Module Firmware Update • Disconnect power cord from AC outlet. • Remove side cover R (refer to "Disassembly Procedure"). • Connect writing port (Connector P.C.B. CB606) and PC serial port (RS232C) as shown in Fig. 1. • Set switch SW7 of RS232C conversion adaptor to “FLASH UCOM” position (Fig. 1). This unit / 本機 Writing port / 書き込みポート (Connector P.C.B. CB606) Serial port (RS232C) RS232C cross cable RS232C conversion adaptor RS232C 変換アダプター SW7 FLASH UCOM OTHER Fig. 1 Flexible flat cable (9P) カード電線 ( 9P ) CRX-040/CRX-140/ NS-BP80 CAUTION: Perform "Writing the wireless module firmware" 1st and "Writing the AirWired Microprocessor Firmware" 2nd, otherwise this unit will not operate properly. Perform the following procedures. Writing the wireless module firmware Step 1 to 5, 6-A, 7 to 13, 14-A Writing the AirWired microprocessor firmware Step 1 to 5, 6-B, 7 to 13, 14-B