

MICHI



P5

Stereo Control Amplifier

Préamplificateur Stéréo

Stereo-Vorverstärker

Preamplificador Estereofónico

Stereo-regelverstärker

Preamplificatore Stereo

Stereokontrollförstärkare

Предварительный стерео усилитель

Owner's Manual

Manuel de l'utilisateur

Bedienungsanleitung

Manual de Instrucciones

Gebruikershandleiding

Manuale di istruzioni

Instruktionsbok

Инструкция пользователя

Important Safety Instructions

Notice

The RS232 connection should be handled by authorized persons only.

WARNING: There are no user serviceable parts inside. Refer all servicing to qualified service personnel.

WARNING: To reduce the risk of fire or electric shock, do not expose the unit to moisture or water. Do not expose the unit to dripping or splashing. Do not place objects filled with liquids, such as vases, on the unit. Do not allow foreign objects to get into the enclosure. If the unit is exposed to moisture, or a foreign object gets into the enclosure, immediately disconnect the power cord from the wall. Take the unit to a qualified service person for inspection and necessary repairs.

Read these instructions.

Keep these instructions.

Heed all warnings.

Follow all instructions.

Do not use this apparatus near water.

Clean only with dry cloth.

Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other.

A grounding type plug has two blades and a third grounding prong.

The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Only use attachments/accessories specified by the manufacturer.

Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

Unplug this apparatus during lightning storms or when unused for long periods of time.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the

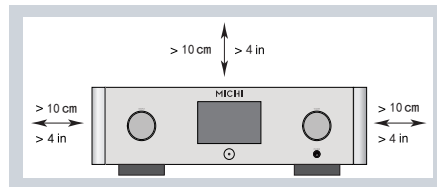
apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

The apparatus should be used in non tropical climate.

The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

You must allow a minimum 10 cm or 4 inches of unobstructed clearance around the unit.



WARNING: The rear panel power cord connector is the mains power disconnect device. The device must be located in an open area that allows access to the cord connector.

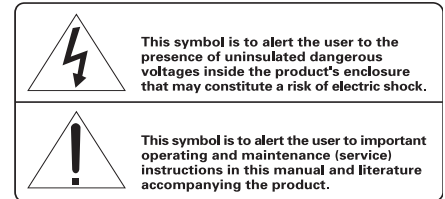
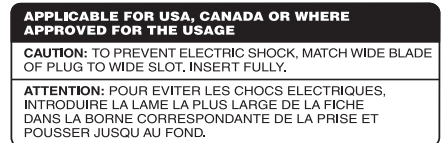
The unit must be connected to a power supply only of the type and voltage specified on the rear panel. (USA: 120 V/60Hz, EC: 230V/50Hz)

Connect the component to the power outlet only with the supplied power supply cable or an exact equivalent. Do not modify the supplied cable. Do not use extension cords.

The mains plug is the disconnect of the unit. In order to completely disconnect the unit from the supply mains, remove the main plug from the unit and the AC power outlet. This is the only way to completely remove mains power from the unit.

The batteries in the remote control should not be exposed to excessive temperature such as sunshine, fire or other heat sources. Batteries should be recycled or disposed as per state and local guidelines.

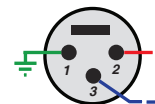
WARNING: The master power switch is located on the rear panel. The unit must allow unobstructed access to the main power switch.



Michi products are designed to comply with international directives on the Restriction of Hazardous Substances (RoHS) in electrical and electronic equipment and the disposal of Waste Electrical and Electronic Equipment (WEEE). The crossed wheeled bin symbol indicates compliance and that the products must be appropriately recycled or processed in accordance with these directives.



This symbol means that this unit is double insulated. An earth connection is not required.



Pin Assignments

Balanced Audio (3 pole XLR):

Pin 1: Ground / Screen
Pin 2: In phase / +ve / Hot
Pin 3: Out of phase / -ve / Cold



Figure 1: Controls and Connections
Commandes et Branchements
Bedienelemente und Anschlüsse
Controles y Conexiones

Bedieningselementen en aansluitingen
Controlli e connessioni
Kontroller och anslutningar
Органы управления и разъемы

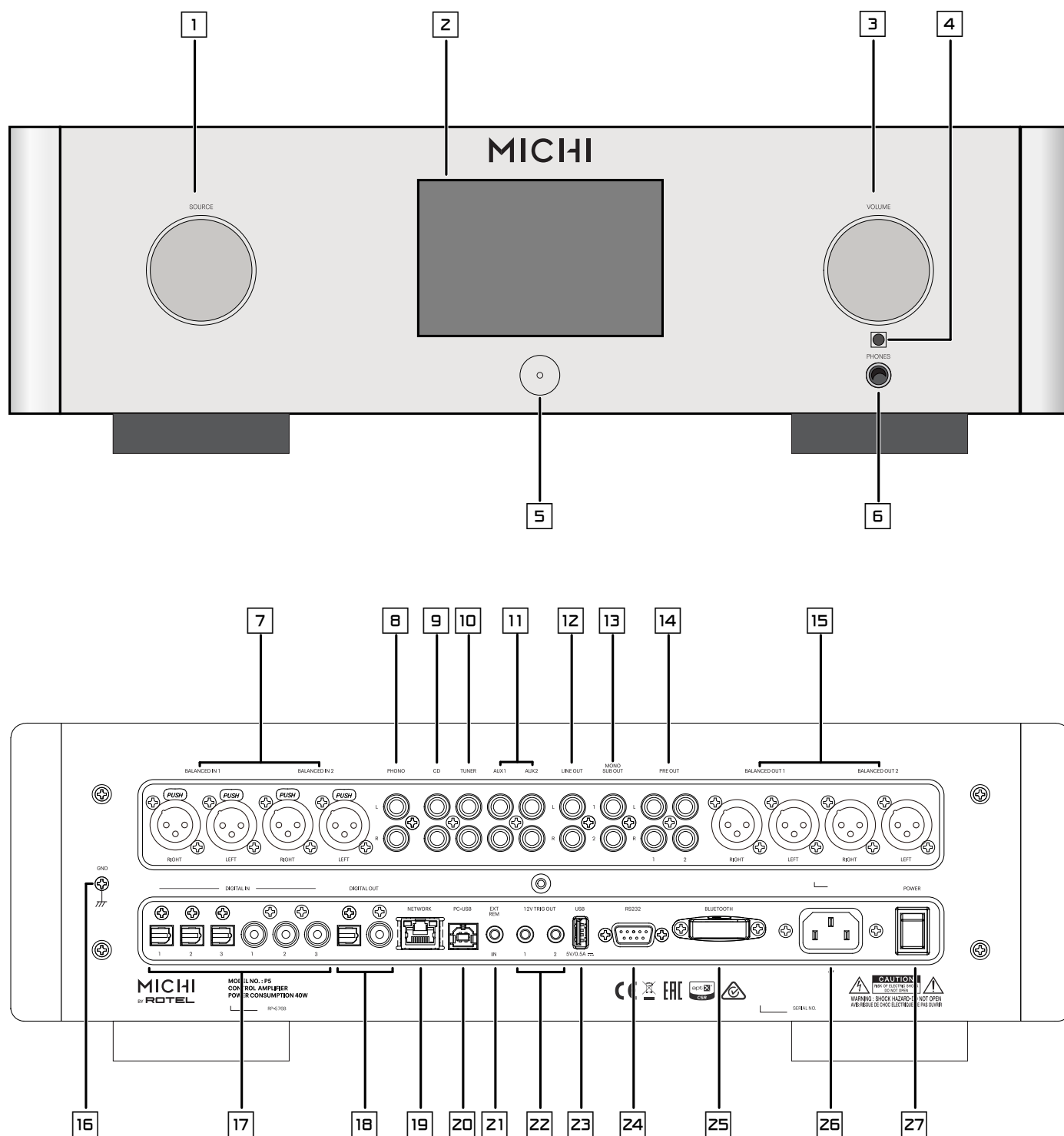


Figure 2: RR-RH6 Remote Control
Télécommande infrarouge RR-RH6
Fernbedienung RR-RH6
Mando a Distancia RR-RH6

Afstandsbediening RR-RH6
Telecomando RR-RH6
RR-RH6 fjärrkontroll
Пульт ДУ RR-RH6

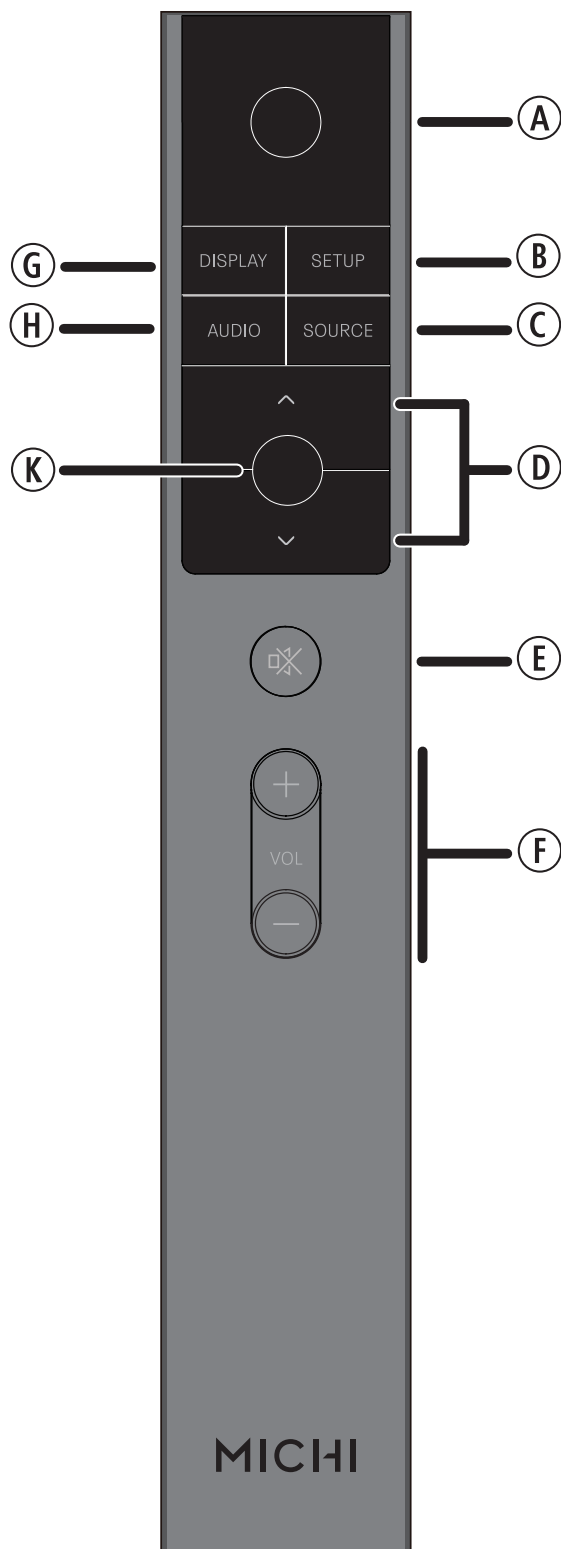


Figure 3: Analog Input and Output Connections
Branchements des entrées et sorties analogiques
Analoge Ein- und Ausgangsanschlüsse
Entradas y Salidas Analógicas
Analoge ingangen en uitgangen
Collegamenti ingressi ed uscite analogici
Anslutningar för analoga in- och utgångar
Аналоговые входы и выходы

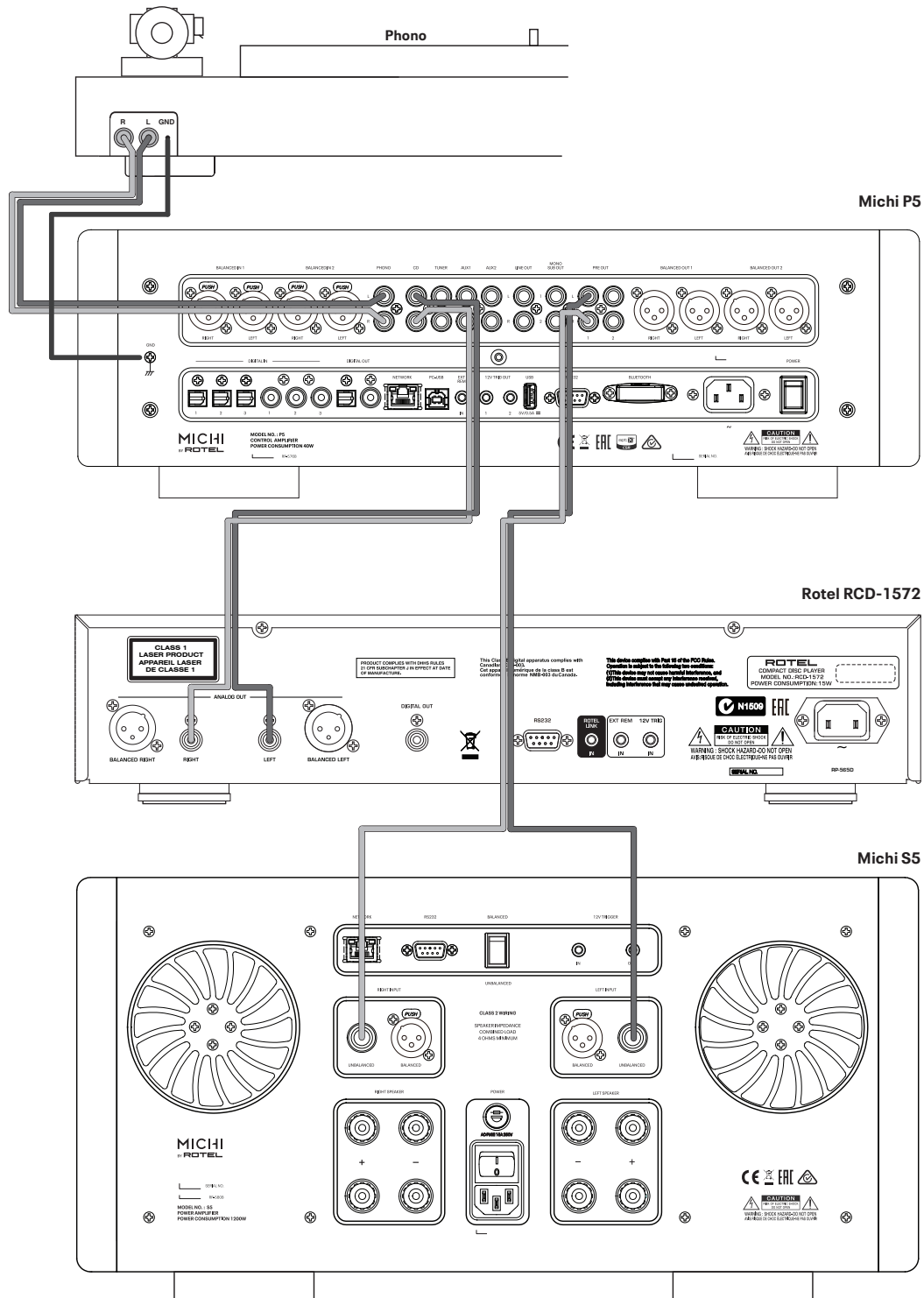


Figure 4: Balanced (XLR) Input and Output Connections
Branchements des entrées et sorties symétriques (XLR)
Symmetrische Ein- und Ausgangsanschlüsse (XLR)
Entradas y Salidas Balanceadas (XLR)
Gebalanceerde ingangen (XLR) en uitgangen
Collegamenti ingressi ed uscite bilanciati (XLR)
Balanserade in- och utgångar (XLR)
Балансные (XLR) входы и выходы

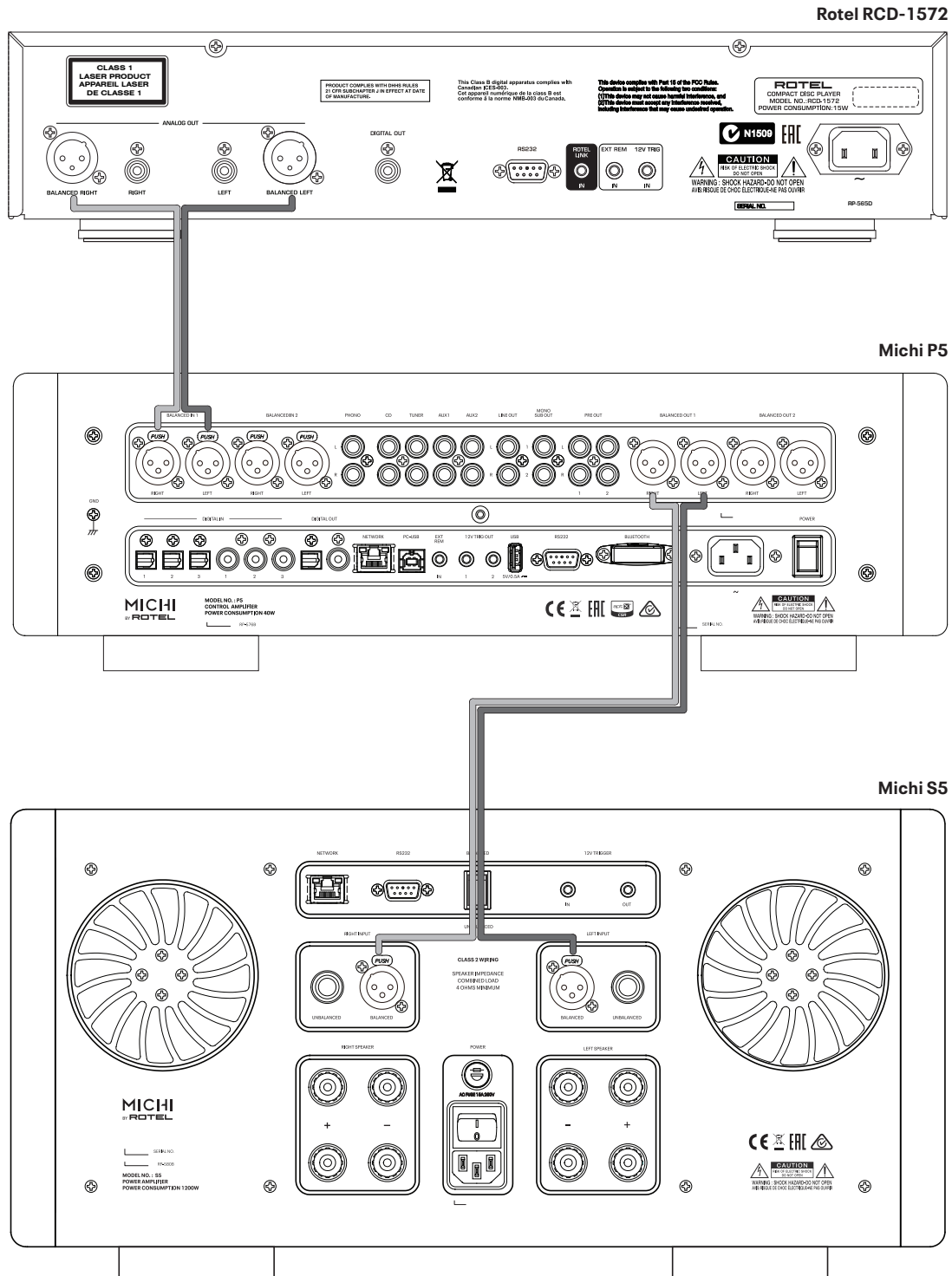
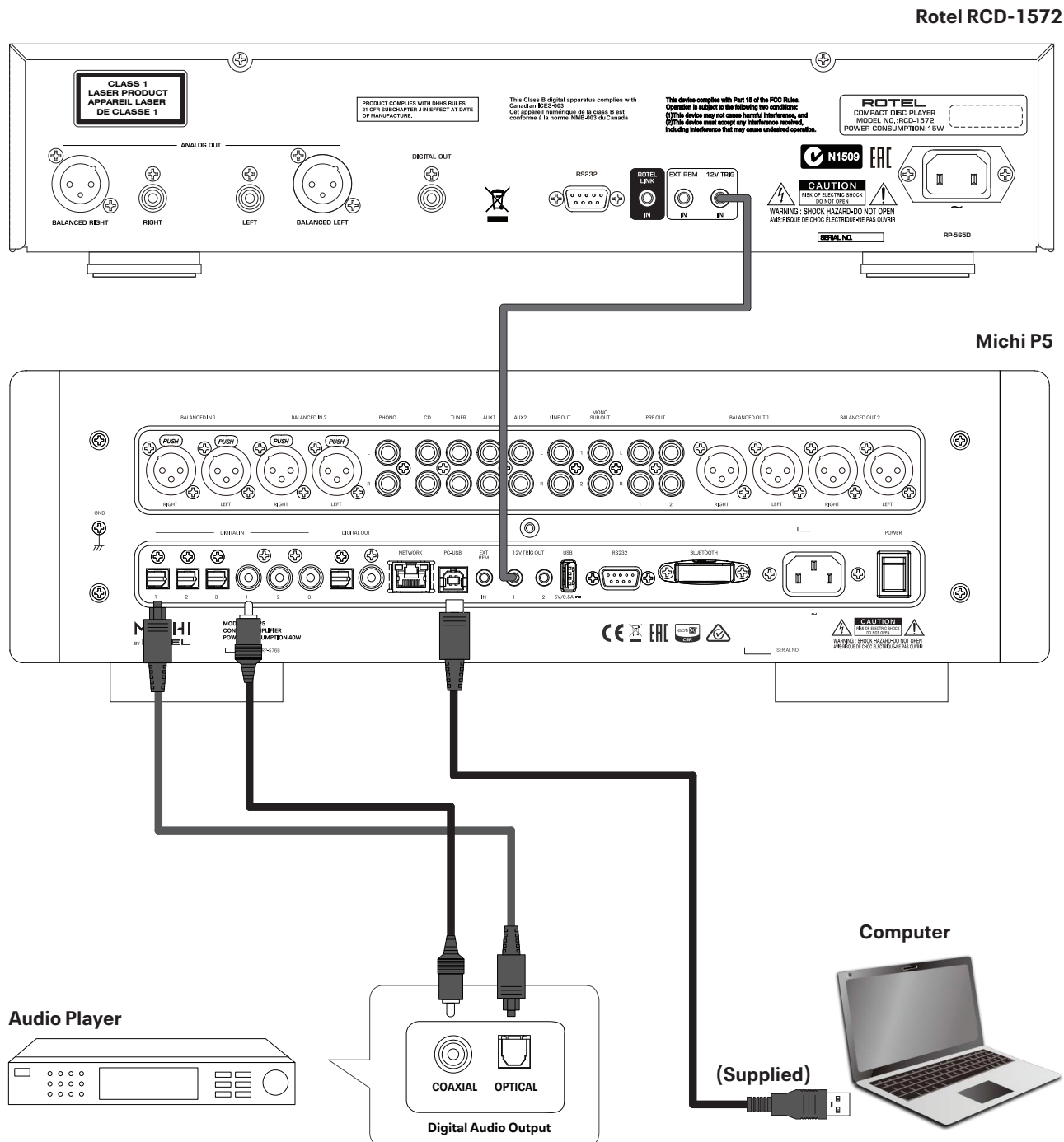


Figure 5: Digital Inputs and 12V Trigger Output**Entrées numériques et Branchements des sorties trigger 12 V****Digitaleingänge und 12V TRIG-Ausgang****Entradas Digitales y Salida para Señal de Disparo de 12V****Digitale ingangen en 12V trigger-uitgang****Collegamenti ingressi digitali e segnali Trigger 12 V****Anslutningar för digitala ingångar och 12-volts styrsignaler****Цифровые входы и 12-В триггерный выход**

Important Notes

When making connections be sure to:

- ✓ Turn off **all** the components in the system **before** hooking up **any** components, including loudspeakers.
- ✓ Turn off **all** components in the system **before** changing **any** of the connections to the system.

It is also recommended that you:

- ✓ Turn the volume control all the way down **before** the amplifier is turned **on or off**.

Remarques importantes

Pendant les branchements, assurez-vous que :

- ✓ **Tous** les maillons sont éteints **avant** leur branchement, **quels qu'ils soient**, y compris les enceintes acoustiques.
- ✓ Éteignez **tous** les maillons **avant** de modifier **quoi que ce soit** au niveau de leurs branchements, quels qu'ils soient.

Il est également recommandé de :

- ✓ Toujours baissez le niveau sonore via le contrôle de volume, **avant d'allumer ou d'éteindre** l'amplificateur.

Wichtige Hinweise

Achten Sie beim Herstellen der Verbindungen auf Folgendes:

- ✓ Schalten Sie **alle** Komponenten im System ab, **bevor** Sie Geräte (einschließlich Lautsprecher) anschließen.
- ✓ Schalten Sie **alle** Komponenten im System ab, **bevor** Sie Anschlüsse im System verändern.

Ferner empfehlen wir, dass

- ✓ Sie die Lautstärke herunterdrehen, **bevor** Sie die Endstufe **ein-** oder **abschalten**.

Notas Importantes

Cuando realice las conexiones, asegúrese de que:

- ✓ Desactiva **todos** los componentes del equipo, cajas acústicas incluidas, **antes** de conectar **cualquier nuevo componente** en el mismo.
- ✓ Desactiva **todos** los componentes del equipo **antes** de cambiar **cualquier conexión del mismo**.

También le recomendamos que:

- ✓ Reduzca el nivel de volumen a cero **antes** de **activarlo o desactivarlo**.

Héél belangrijk

Bij het maken van de verbindingen:

- ✓ Zorg dat niet alleen de P5, maar de **gehele** installatie uitstaat, als nog niet **alle** verbindingen gemaakt zijn.
- ✓ Zorg dat niet alleen de P5, maar de **gehele** installatie ook uitstaat, **als** u verbindingen gaat **wijzigen**.

Wij raden u ook aan om

- ✓ de volumeregelaar geheel dicht te draaien (volkomen naar links) **wanneer** u uw eindversterker **aan- of uitzet**.

Note importanti

Quando effettuate i collegamenti assicuratevi di:

- ✓ Spegner **tutti** i componenti del sistema **prima** di collegare **qualsiasi** componente, inclusi i diffusori.
- ✓ Spegner **tutti** i componenti del sistema **prima** di modificare **qualsiasi** connessione nel sistema.

Vi raccomandiamo inoltre di:

- ✓ Portare il volume a zero **prima** di **accendere o spegnere** l'amplificatore.

Viktigt

Tänk på följande när du gör anslutningar:

- ✓ Stäng av **alla** komponenter i anläggningen **innan** du ansluter nya komponenter, inklusive högtalare.
- ✓ Stäng av **alla** komponenter i anläggningen **innan** du ändrar någon anslutning **i anläggningen**.

Vi rekommenderar också följande::

- ✓ Vrid ner volymen helt och hållet **innan** förstärkaren slås **på eller av**.

Важные замечания

Перед подсоединением:

- ✓ Выключите **все** компоненты, включая колонки.
- ✓ Выключите **все** компоненты в вашей системе, прежде чем что-то в ней **менять**.

Рекомендуется также:

- ✓ Вывести громкость на **минимум**, перед тем как **включать или выключать** его.

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Getting Started

Thank you for purchasing the Michi P5 Stereo Control amplifier. When used in a high-quality music audio system, your Michi product will provide years of musical enjoyment.

The P5 is a full featured, high performance component. All aspects of the design have been optimized to retain the full dynamic range and subtle nuances of your music. The P5 has a highly regulated power supply incorporating a Michi custom-designed toroidal power transformer and patented high efficiency slit foil capacitors. This low impedance power supply has ample power reserves, which enables the P5 to easily reproduce the most demanding audio signals.

The printed circuit boards (PCB) are designed with Symmetrical Circuit Traces. This ensures that the precise timing of the music is maintained and faithfully recreated. The P5 circuitry uses metal film resistors and polystyrene or polypropylene capacitors in important signal paths. All aspects of this design have been examined to ensure the most accurate music reproduction.

The main functions of the P5 are easy to install and use. If you have experience with other stereo systems, you shouldn't find anything perplexing. Simply plug in the associated components and enjoy.

A Few Precautions

WARNING: To avoid potential damage to your system, turn off ALL the components in the system when connecting or disconnecting the loudspeakers or any associated components. Do not turn the system components back on until you are sure all the connections are correct and secure. Pay particular attention to the speaker wires. There must be no loose strands that could contact the other speaker wires, or the chassis of the control amplifier.

Please read this manual carefully. In addition to basic installation and operating instructions, it provides valuable information on various P5 system configurations as well as general information that will help you get optimum performance from your system. Please contact your authorized Michi dealer for answers to any questions you might have. In addition, all of us at Michi welcome your questions and comments.

Save the P5 shipping carton and all enclosed packing material for future use. Shipping or moving the P5 in anything other than the original packing material may result in severe damage to your audio components.

If included in the box please complete the owner's registration card or register online. Also be sure to keep the original sales receipt. It is your best record of the date of purchase, which you will need in the event warranty service is ever required.

Placement

Like all audio components that handle low-level signals, the P5 can be affected by its environment. Avoid placing the P5 on top of other components. Also avoid routing audio signal cables near power cords. This will minimize the chance it will pick up hum or interference.

The P5 is supplied with an RR-RH6 remote control and must be placed where the infrared signal from the remote can reach the front panel Remote Sensor.

Cables

Be sure to keep the power cords, digital signal cables and regular audio signal cables in your installation away from each other. This will minimize the chance of the regular audio signal cables picking up noise or interference from the power cords or digital cables. Using only high quality, shielded cables will also help to prevent noise or interference from degrading the sound quality of your system. If you have any questions see your authorized Michi dealer for advice about the best cable to use with your system.

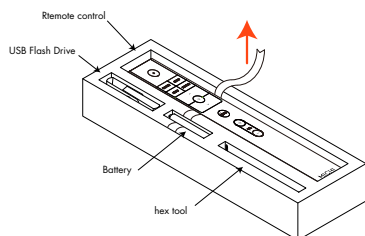
The RR-RH6 Remote Control

Operations with the remote control are described in this manual showing the function keys with encircled letters.

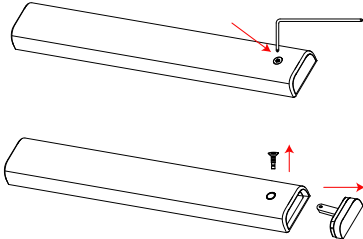
Remote Control Batteries

Two AAA size batteries must be installed before the remote control can be used. To install the batteries, follow the steps as below:

1. Lift the ribbon under the batteries (if included) and remote control and remove them out of the box.



2. Remove the screw on the back of the remote using the hex tool provided with the remote. Use only the hex tool supplied to avoid damaging the attaching screw.



3. Install the batteries as shown in the illustration in the battery well (Figure 2). Please note there are negative and positive marks shown on the battery cover (Figure 1). Reassemble the battery cover and tighten the screw then test the control for proper operation.

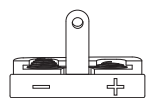


Figure 1

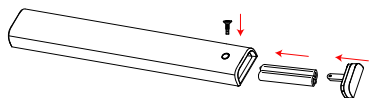


Figure 2

When the batteries become weak the remote control won't operate the device consistently. Installing fresh batteries should eliminate the problem.

NOTE: Use only the tool supplied with the unit to remove the screw to avoid damage to the hex screw.

NOTE: Do NOT over-tighten the screw to avoid damage to the screw or remote control.

AC Power and Control

AC Power Input ²⁶

Your P5 is configured at the factory for the proper AC line voltage in the country where you purchased it (either 120 volts AC or 230 volts AC with a line frequency of either 50 Hz or 60 Hz). The AC line configuration is noted on a decal on the back panel.

NOTE: Should you move your unit to another country, it may be possible to reconfigure it for use on a different line voltage. Do not attempt to perform this conversion yourself. Opening the enclosure of the unit exposes you to dangerous voltages. Consult a qualified service person or the Michi factory service department for information.

NOTE: Some products are intended for sale in more than one country and as such are supplied with more than one AC cord. Please only use the one appropriate for your country/region.

The P5 should be plugged directly into a 2-pin polarized wall outlet. Do not use an extension cord. A heavy duty multi-tap power outlet strip may be used if it (and the wall outlet) is rated to handle the current demanded by the P5 and all the other components connected to it.

If you are going to be away from home for an extended period of time such as a month long vacation, it is a sensible precaution to unplug the P5 (as well as other audio and video components) while you are away.

Master Power Switch ²⁷

The large rocker switch on the rear panel is a master power switch. When it is in the OFF position, power to the unit is completely off. When it is in the ON position, the front panel POWER ⁵ and remote control Standby button ^A can be used to activate the unit or put it into standby mode.

12V TRIGGER Connection ²²

Some audio components can be turned on automatically when they receive a 12V turn on "signal". The two 12V Trigger Outputs on the P5 provide the required signal. Connect compatible components to the P5 with a conventional 3.5 mm mini mono plug cable. When the P5 is in standby mode, the trigger signal is disabled, so the components controlled by it will be turned off.

Input Signal Connections

See Figure 3

NOTE: To prevent loud noises that neither you nor your speakers will appreciate, make sure the system is turned off when you make any signal connections.

Phono Input ⁸ and Ground Connection (GND) ¹⁶

See Figure 3

Plug the cable from the turntable into the appropriate left and right phono inputs. If the turntable has a "ground" wire, connect it to the screw terminal to the left of the Phono inputs. This will help prevent hum and noise.

Line Level Inputs ⁹ ¹⁰ ¹¹

See Figure 3

The CD, Tuner, and Aux inputs of the control amplifier are analog "line level" inputs. These inputs are for connecting components such as CD players or other audio playback devices with an analog audio output.

The left and right channels are clearly labeled and should be connected to the corresponding channels of the source component. The Left connectors are white, the Right connectors are red. Use high quality RCA cables for connecting input source components to the P5. Ask your authorized Michi dealer for advice about cables.

Balanced (XLR) Inputs ⁷

See Figure 4

Two pairs of balanced XLR inputs accept audio signals from CD player, Blu-ray player or other source components with XLR outputs.

NOTE: You should choose only one method of analog connection from a source component to P5. Do not connect both the RCA and XLR outputs of a source component to the P5 at the same time.

Digital Inputs ¹⁷

See Figure 5

There are three sets of digital inputs labeled 1, 2 and 3, for COAXIAL and OPTICAL respectively. Connect the COAXIAL or OPTICAL PCM outputs of your source component into these sockets. The digital signals will be decoded and played by the P5. The unit is capable of decoding PCM signals up to 24 bit, 192kHz.

Output Connections

Line Output ¹²

The line output connectors can be used to send the analog audio to a separate processor device. These outputs bypass the volume encoder and are full line level output. They should be connected to the analog inputs of the processor. As with other sources be sure to connect the Left and Right channels of each device to the proper channels on the associated components. Use high quality connecting cables to prevent loss of sound quality.

MONO SUB Output ¹³

There are 2 connectors for mono subwoofer output to connect to a subwoofer. These mono outputs are summed with both the left and right audio signal. They are parallel outputs allowing 2 subwoofers to be connected to the P5.

Preamp Output ¹³

See Figure 3

The P5 RCA-type output connectors are compatible with most power control amplifiers. As always, select high quality audio interconnect cables. Connect the left and right channel outputs of the P5 to the corresponding inputs on the amplifier or other component.

NOTE: There are two sets of RCA outputs on the P5. The second set of outputs may be used in custom system configurations to drive a second power amplifier or to supply a signal to a special signal processor.

Balanced (XLR) Output ¹⁵

See Figure 4

Two pairs of XLR balanced connectors supply an analog output signal from the P5 to a power amplifier with XLR balanced input connectors.

NOTE: Do not connect both the RCA and XLR to the same control amplifier at the same time.

Digital output ¹⁸

If you are using an outboard D/A converter or other digital processor, you will need an unprocessed digital data stream from the P5. Using a standard 75

ohm coax/optical digital cable, connect the P5's digital output to the digital input connector on the outboard D/A converter.

Headphone Output ⁶

The headphone output allows you to connect headphones for private listening. This output accepts a standard 6.3 mm (1/4") stereo headphone connector. Plugging in a set of headphones does not cut off the signal to the preamp outputs. In most instances you should turn off the power control amplifier when listening to headphones.

NOTE: Because the sensitivity of speakers and headphones can vary widely, always reduce the volume level before connecting or disconnecting headphones.

Bluetooth Connection ²⁵

The Bluetooth Antenna ²⁵ on the P5's back panel is for wireless streaming via Bluetooth from your device (i.e. mobile phones). From your mobile device, look for "Michi Bluetooth" and connect to it. Connection is normally automatic, but if prompted for a password, please press "0000" on your device. The P5's supports traditional Bluetooth, AAC and APTX Bluetooth audio streaming.

Rear USB Power Port ²³

The rear USB port provides 5V/0.5 amps for charging or powering USB devices including streaming music players. This port does not allow playback of audio.

The port can be configured to remain powered even when the P5 is in standby mode through the front panel Setup menu (See USB Power part on page 16).

This configuration option allows the attached streaming source to remain powered for use with the Signal Sense function for automatic power on/ off control of the control amplifier.

NOTE: When configured to provide continuous power to the rear panel USB port the P5 will consume additional power even when in standby mode.

EXT REM IN Jack ²¹

This 3.5 mm mini-jack receives command codes from industry-standard infrared receivers via hard-wired connections. This feature could prove useful when the unit is installed in a cabinet and the front-panel sensor is blocked. Consult your authorized Michi dealer for information on these external repeaters and the proper wiring of a jack to fit the mini-jack receptacle.

RS232 ²⁴

The P5 can be controlled via RS232 for integration with automation systems. The RS232 input accepts a standard straight DB-9 Male-to-Female cable.

For additional information on the connections, software, and operating codes for computer control of the P5, contact your authorized Michi dealer.

PC-USB Input 20

See Figure 5

Connect this input using the supplied USB cable to the PC-USB socket of your computer.

The P5 supports both USB Audio Class 1.0 and USB Audio Class 2.0 modes. Windows computers do not require installation of a driver for USB Audio Class 1.0 and support playback of audio up to 96k Hz sampling rates. The Factory Default setting is USB Audio Class 1.0.

To take advantage of USB Audio Class 2.0 audio playback supporting up to 384k Hz sampling rates you will need to install the Windows driver supplied in the USB Flash Drive included with the P5. You will also need to switch the P5 to USB Audio Class 2.0 playback mode with the following:

- Press SETUP on the remote control to enter the SETUP Menu and use the \wedge/\vee D buttons to select the Source menu then press the Enter K button. Use the \wedge/\vee D arrow buttons and the Enter K button on the remote control to select "PC-USB" as INPUT SOURCE
- Press SETUP on the remote control to enter the SETUP Menu and use the \wedge/\vee D buttons to select the AUDIO menu then press the Enter K button. Use \wedge/\vee D arrow buttons and the Enter K button on the remote control to select "USB Audio 2.0" as PC-USB Option.
- Power cycle the P5 and reboot your PC after changing the USB Audio mode to ensure both units are properly configured.

Many audio playback applications do not support 384k Hz sampling rate. Please confirm your audio player supports 384k Hz audio and you have 384k Hz audio files to properly playback this sample rate. Also, you may need to configure the audio driver in your PC to output 384k Hz or your computer may "down sample" to a lower audio sample rate. For more information please refer to your audio player or operating system information.

NOTE: USB Audio Class 2.0 requires installation of the Windows PC driver on the CD ROM included with the P5.

NOTE: MAC computers do not require a driver to support PC-USB 1.0 or 2.0 audio.

NOTE: Upon successful installation of the driver, you may need to select the Michi audio driver from the audio/speaker setup of your computer.

NOTE: The P5 supports both DSD and DOP audio playback in 1X and 2X formats. Consult your audio player to confirm proper operation for playback of these audio formats.

Network Connection 19

The P5 can be attached to a network using the rear panel NETWORK socket. The NETWORK configurations allow both static and DHCP IP addressing. See the Network Setup section of this manual under Setup Menu for IP address configuration information.

The NETWORK connections allows software updates to be downloaded from the Internet. The Network connection also allows IP control for integration with automation systems.

For additional information on the IP connection please contact your authorized Michi dealer.

Setup Menu

The Michi P5 features the information display to help operate the system. A more comprehensive ON-SCREEN DISPLAY (OSD) menu system is available at any time by pressing the SETUP button on the remote. These OSD menus guide you through the configuration and setup of the P5. The settings made in the configuration process are memorized as default settings and need not be made again for normal operation of the unit.

Front Panel Overview

The following is a brief overview of the controls and features on the front panel of the unit.

Remote Sensor 4

This remote sensor window receives IR commands from the remote control. Please do not block this sensor.

Display 2

The front panel display shows the source selected, volume level and tone settings. The display can be dimmed using the P5 setup menu or the IR remote controller. See the Display Configuration section of this manual for details.

Overview of Buttons and Controls

This section provides a basic overview of the buttons and controls on the remote control. Detailed instructions on the use of these buttons are provided in the more complete operating instructions in the following sections.


Navigating D and Enter K Buttons 1: Use the navigation buttons \wedge/\vee D and the Enter K on the remote control to access the various menus and operate the P5 settings.


Power 5 A: The Power button on the front panel and on the remote control activate or deactivate the unit. There is an LED light in the middle of the Power button on the remote control, which will be illuminated when you pick up the remote control. To power on the unit, the rear panel master POWER switch must be in the ON position for the front panel and the remote standby function to operate.



Power On - To power on the unit push and release the Power button 5 on the front panel or the IR remote control.

Power Off/Standby - To power off the unit to standby push and release the front panel Power button 5 or PUSH-HOLD the remote control Power button 5 **for 1.5 seconds.**




NOTE: All Michi products will respond to the same Power On and Off commands to simplify the power control when multiple products are installed. To control the power using the IR remote follow the instructions above and point the remote control at the Michi products. If a unit does not respond to a power on or off from the IR remote simply PUSH or PUSH-HOLD the power button again to resend the desired command.

SETUP : The SETUP button activates the OSD setup screen on the front display. Push the SETUP button again to move to the previous setup menu as a "back" key or exit setup menu if on the first level of setup menu.





SOURCE : The SOURCE knob on the front panel and the SOURCE button on the remote control selects the input signal source. From the front panel turn the SOURCE knob to select the source. After 1 second of no action the listed source will be selected as the active source.

On the IR remote push the SOURCE button and navigate to the desired source using the  buttons and push the Enter  button to activate the source.

NOTE: Only sources that are configured as ACTIVE in the setup menu will be displayed as options.

DISPLAY : Dims the front display. To dim the display PUSH-HOLD the DISPLAY  button on the remote control **for 3 seconds**. To turn on the display to the level of brightness configured in the setup menu push and release the DISPLAY  button.



NOTE: The DISPLAY button is common for all Michi models. To Dim or enable the display PUSH or PUSH-HOLD the button and point to the Michi products. If a unit does not respond to a DISPLAY command simply send the command again using a PUSH or PUSH-HOLD.

AUDIO : The AUDIO button allows temporary adjustments to the Balance, Bass and Treble settings. To change these settings push the AUDIO button on the remote control and navigate to the desired setting using the  button and push the Enter  button. Use the  button to change the value. Push the AUDIO button again to exit the menu or to exit the Audio menu.

NOTE: A properly setup Hi-Fi system should not require changes to the Bass or Treble setting. Use these adjustments sparingly.





NOTE: These settings are temporary and not saved when the P5 is powered off to Standby. For permanent changes, configure the audio settings in the setup menu.

Mute Button : Push the  button once to mute the audio. An indication appears in the front panel on-screen display. Press the button again to restore the previous volume level.

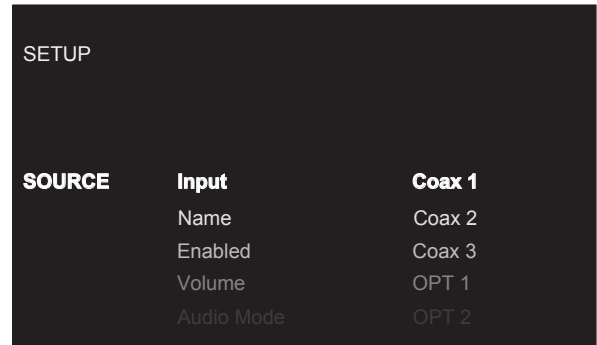
VOLUME Knob  and **VOLUME +/- Buttons **: The VOLUME +/- buttons on the remote and the rotary control on the front panel provide the master VOLUME control, adjusting the output level.

Main Menu







The Setup menu provides access to OSD screens for various configuration options. Setup menu is reached by pressing the SETUP  button on the remote. To select the desired menu, move the highlight using the  arrow buttons and press the Enter  button on the remote control. Press the SETUP  button again to return to the previous menu or select "EXIT" on the OSD to end setup and return to normal operation.



Source Configuration

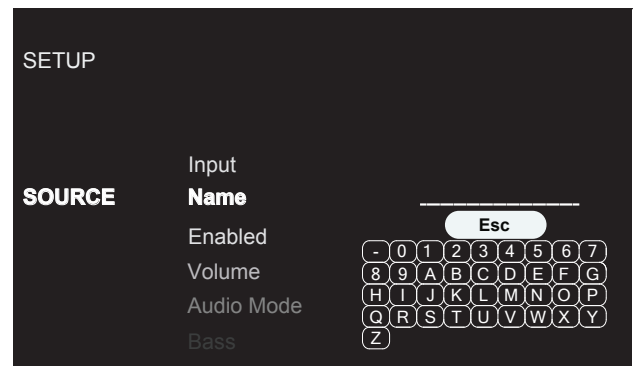




A key step in setting up the unit, is to configure each source input using the Source Setup screens. Configuring the inputs allows you to set defaults for a number of settings including the type of input connector, the desired audio mode, custom labels that appear in the displays when a source is selected, and many more options.

This Source menu in the Setup menu, provides the following options, selected by placing the highlight on the desired line using the  arrow buttons and pressing the Enter  button. This action displays the right side options allowing changes. Change the options using the  arrow buttons and press the Enter  button to confirm.

INPUT: Changing this input allows you to select a specific input for configuring. (COAX 1-3, OPT 1-3, PC-USB, BLUETOOTH, COMPACT DISC, PHONO, TUNER, AUX 1-2, XLR 1-2)

NAME: The name of the source can be customized. For example Aux 1 can be named "TV" for easier reference. The default NAME is the same as the SOURCE. Place the highlight on this option and use the  arrow buttons on the remote control to select "Custom" then press the Enter  button to enter the source name edit sub menu as below.



1. Press the  arrow buttons on the remote control to change the first letter, scrolling through the list of available characters.
2. Press the Enter  button on the remote control to confirm that letter and move to the next position.

3. Repeat steps 1 and 2 until all ten characters have been completed. The final press of the Enter (K) button saves the new name. Or select the "Esc" button on the OSD to confirm if you have less than ten characters to enter.

Enabled: Allows a source input to be enabled and appear in the list of source input options when using the source selection on the front panel or IR remote control. Unused sources should be set to disabled by selecting the "No" option.

Options include: Yes (Default), No.

Volume: Configures a Fixed Volume level for a specified input. This volume level is immediately set when this source input is selected and cannot be changed using the front panel or IR remote. This is useful for input sources that include their own volume setting like common Apps on phones or tablets.

Options include: Variable (Default), 30 - 90.

Audio Mode: Configures audio mode to Direct Bypass or Tone Enabled.

Options include: Direct Bypass (Default), Tone Enabled.

Bass: Bass setting is enabled when Audio Mode is set to Tone Enabled.

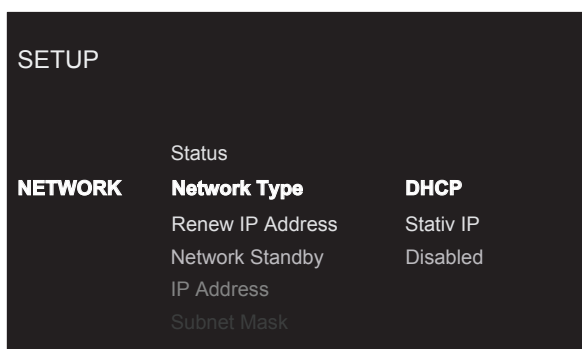
Options include: +10 to -10 (Default 0).

Treble: Treble setting is enabled when Audio Mode is set to Tone Enabled.

Options include: +10 to -10 (Default 0).

Press the SETUP (B) button on the remote control to exit the setup menu or select "Back" on the OSD to return to the main menu.

Network Configuration



This Network menu in the Setup menu, provides the following options, selected by placing the highlight on the desired line using the ^/▽ (D) arrow buttons and pressing the Enter (K) button. This action displays the right side options allowing changes. Change the options using the ^/▽ (D) buttons and press the Enter (K) button to confirm.

Status: If the network is properly configured and attached to the network then "Connected" will be displayed. If the network is not properly configured or not connected to a network, "Disconnected" will be displayed.

Network Type: In most systems, set the IP ADDRESS MODE to DHCP. This setting will allow your router to assign an IP address to the P5 automatically. If your network uses fixed IP addresses, set the IP ADDRESS MODE to Static. To disable the IP connection set this option to DISABLED.

Options include: DHCP (Default), Static IP, Disabled.

Renew IP Address: Disabled if Network Type is Static or Disabled. If Network Type is DHCP then select Yes and press the Enter (K) button to renew the IP address.

Network Standby: When set to Enabled the unit will maintain the Ethernet IP connection even in Standby Mode allowing the unit to be powered on via IP. If Disabled the unit will not power on from the IP connection and must use either the front panel, IR remote or RS232 to power on the unit.

Options Include: Disabled (Default), Enabled

NOTE: When Network Standby is enabled the unit will consume additional power.

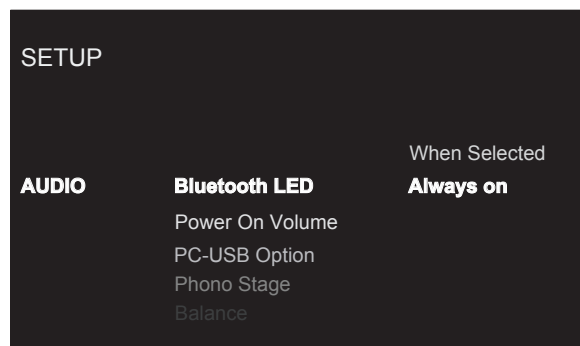
IP Address/Subnet Mask/Gateway/DNS: Disabled if Network Type is DHCP or Disabled. If STATIC mode is selected you must configure all settings for the network including IP Address, Subnet Mask, Gateway and DNS Server. Press the Enter (K) button to activate the first digit in the line you want to change, then use the ^/▽ (D) arrow buttons to adjust the values and press the Enter (K) button to cycle to the next digit. When the proper IP information is configured press the Enter (K) button to move the cursor back to the previous menu and accept the settings. After entering the STATIC IP address information the network will be tested and connection status reported.

NOTE: For more information regarding network connection please contact your authorized Michi dealer.

NOTE: A network connection is not required for the P5 to operate.

Press the SETUP (B) button on the remote control to exit the setup menu or select Back to return to the main menu.

Audio Configuration



This Audio menu in the Setup menu, provides the following options, selected by placing the highlight on the desired line using the ^/▽ (D) arrow buttons and pressing the Enter (K) button. This action displays the right side options allowing changes. Change the options using the ^/▽ (D) arrow buttons and press the Enter (K) button to confirm.

Bluetooth LED: The Bluetooth LED will be powered on only when Bluetooth is the selected input or will always be powered on when the unit is ON.

Options include: Always on (Default), On When Selected

Power on Volume: This sets the max volume level for when the unit powers on to reduce the chance of the previous listening session set too loud.

Options include: Max 50 (Default) - Max 90.

PC-USB Mode: Configures PC-USB mode to Audio Class 1.0 or Audio Class 2.0. Default is Audio Class 1.0.

Options include: Audio Class 1.0 (Default), Audio Class 2.0.

Phono Stage: Relay selectable turntable source input type of Moving Magnet or Moving Coil cartridge.

Options include: Moving Magnet (Default), Moving Coil

Balance: The Balance Setting adjusts the left-to-right balance of the sound output. The factory default is the center position or "0". The value can change from -10 to +10.

Signal Sense: Monitors if an audio signal is present on the configured Signal Sense input. The P5 monitors the data stream to determine if there is audio. If there is no audio detected for 10 minutes, the P5 will enter Signal Sense Power Mode. When in Signal Sense Power Mode and the P5 detects audio on the Signal Sense input, the unit will automatically power on. To disable this function, select the "Disabled" option which is the factory default setting.

Options include: Disabled (Default), COAX1-3, OPT1-3, PC-USB, BLUETOOTH, COMPACT DISC, PHONO, TUNER, AUX 1-2, XLR1-2.

NOTE: When the P5 enters standby mode via the remote control, the Signal Sense function will not operate until the unit detects the audio has stopped for the minimum 10 minute time-out period. This prevents the unit from immediately powering back on if there is still active audio playing.

NOTE: When the Signal Sense function is activated, the P5 will consume additional power in signal sense standby mode.

Press the SETUP (B) button on the remote control to exit the setup menu or select "Back" on the OSD to return to the main menu.

Display Configuration

SETUP		
DISPLAY	Brightness	High
	Temporary Display	Medium High
	LED Brightness	Medium
	Back	Medium Low
		Low

This Display menu in the Setup menu, provides the following options, selected by placing the highlight on the desired line using the ^/∨ (D) arrow buttons and pressing the Enter (K) button. This action displays the right side options allowing changes. Change the options using the ^/∨ (D) arrow buttons and press the Enter (K) button to confirm.

Brightness: This function sets the brightness of the front display. The setting is activated during normal operation by a PUSH RELEASE of the DISPLAY button (G) on the remote control. The OSD will always activate at the most bright level

regardless of the Brightness setting to ensure the unit configuration options can easily be accessed and modified.

Options include: High (Default), Medium High, Medium, Medium Low, Low.

NOTE: To dim the front display PUSH-HOLD the DISPLAY (G) button on the remote control or 3 seconds.

Temporary Display: This function allows the front display to temporarily show changes to the P5 for the time-out period before the display turns off again. An example would be to turn on the display to show changes to the source or volume levels then turn off the display after the time-out period expires. To disable the temporary display and have the P5 display always off set this function to Disable.

Options include: Always On, 5 seconds, 10 seconds, 15 seconds.

LED Brightness: Sets the brightness of the ON level of the front panel Power LED.

Options include: High (Default), Medium High, Medium, Medium Low, Low.

Press the SETUP (B) button on the remote control to exit the setup menu or select "Back" on the OSD to return to the main menu.

System Configuration

SETUP		
SYSTEM	PC-USB Version	
	Software Version	Disabled
SYSTEM	Auto Power Off	20 Mins
	Software Update	1 Hour
	USB Power	2 Hours
	Factory Default	5 Hours
	Back	12 Hours

This System menu in the Setup menu, provides the following options, selected by placing the highlight on the desired line using the ^/∨ (D) arrow buttons and pressing the Enter (K) button. This action displays the right side options allowing changes. Change the options using the ^/∨ (D) arrow buttons and press the Enter (K) button to confirm.

PC-USB Version: This shows current loaded software version for PC-USB processor.

Software Version: This shows the current software version loaded into the unit.

Auto Power Off: Set the amount of time the units stays powered on when there is no audio signal. The P5 will automatically go to standby mode if audio is not detected for the specified timer period. Default: 20 Mins.

Options include: Disable, 20 Mins, 1 Hour, 2 Hours, 5 Hours, 12 Hours.

Software Update: Select the desired update method to update the unit.

Options include: No (Default), USB, Internet.


USB Power: Enables the rear panel USB power port to remain powered at all times. The power consumption is higher in Always On mode. To enable continuous power to the rear USB power port select the Always On option.

Options include: Normal (Default), Always On.

NOTE: When the USB Power is configured to Always On, the P5 will consume additional power in standby mode.

Factory Default: This option sets the unit back to the original setting as when it left the factory. All user settings will be erased.

NOTE: Use caution when resetting the P5 to factory defaults as all user configured options will be erased and reset to original factory settings.

Press the SETUP  button on the remote control to exit the setup menu or select "Back" on the OSD to return to the main menu.

Troubleshooting

Most difficulties in audio systems are the result of incorrect connections, or improper control settings. If you encounter problems, isolate the area of the difficulty, check the control settings, determine the cause of the fault and make the necessary changes. If you are unable to get sound from the P5, refer to the suggestions for the following conditions:

Power Indicator Is Not Illuminated

The front power indication will be illuminated anytime the unit is connected to AC power and the rear power switch is set to the ON position. The indication will be RED for standby mode and WHITE in normal operation. If the indication is not illuminated, test the power outlet with another electrical device, such as a lamp. Be sure the power outlet being used is not controlled by a switch that has been turned off. And check all AC power including the rear power switch to ensure the unit is receiving power.

Fuse Replacement

If another electrical device works when plugged into the power outlet, but the Power Indicator still will not light when the P5 is plugged into the wall outlet, it indicates that the internal power fuse may have blown. If you believe this has happened, contact your authorized Michi dealer to get the fuse replaced.

No Sound

Check the signal source to see if it is functioning properly. Make sure the cables from the signal source to the P5 inputs are connected properly. Check all the wiring between the P5 and the power control amplifier, and the speakers.

Playable Audio Format

Bluetooth

Format	Notes
Any format supported by the sending device.	May exclude Apps designed to play formats not originally supported by the sending device.

PC-USB

Format	Notes
Format determined by the Media Player/Server software that you use.	Any supported format by the PC software PCM Audio: 44.1k, 48k, 88.2k, 96k, 176.4k, 192k, 384k (16 bit and 24 bit) DSD64 and DSD128

Coax/Optical

Format	Notes
SPDIF LPCM	44.1k, 48k, 88.2k, 96k, 176.4k, 192k 16 bit, 24 bit

Specifications

Total Harmonic Distortion (20 Hz - 20k Hz)		< 0.002%	Digital Section		
Intermodulation Distortion (60 Hz : 7 kHz, 4:1)		< 0.002%	Frequency Response		20Hz - 20kHz (±0.3 dB, Max)
Input Sensitivity / Impedance			Signal to Noise Ratio (IHF "A" weighting)		100 dB
Phono Input (MM)		2.5 mV / 47k ohms	Input Sensitivity / Impedance		0dBFS / 75 ohms
Phono Input (MC)		250 uV / 47k ohms	Digital Output		0.75 V, Peak to Peak
Line Level Inputs (RCA)		160 mV / 47k ohms	Load Impedance		75 ohms
Line Level Inputs (XLR)		250 mV / 100k ohms	Digital Inputs		SPDIF LPCM
Input Overload					(up to 192kHz 24 bit)
Phono Input (MM)		199 mV	PC-USB		USB Audio Class 1.0
Phono Input (MC)		22 mV			(up to 96kHz 24 bit)
Line Level (RCA)		12 V			USB Audio Class 2.0
Balanced (XLR)		12 V			(up to 384kHz 24bit)*
Output Level					*Driver installation required
Line Level (RCA)		1 V / 470 ohms			DSD (up to 11.2MHz 16bit)
Balanced (XLR)		2 V / 100 ohms			and DoP support
Frequency Response:					MQA support
Phono Input		20 Hz - 20k Hz, 0 ± 0.3 dB	General		
Line Level Inputs		10 Hz - 100k Hz, 0 ± 0.3 dB	Power Requirements:		
Tone Controls			USA:		120 Volts, 60 Hz
Bass		± 10 dB at 100 Hz	EC:		230 Volts, 50 Hz
Treble		± 10 dB at 10k Hz	Power Consumption		40 watts
Signal to Noise Ratio (IHF "A" weighting)			Standby		
Phono Input		80 dB	Normal		< 0.5 watts
Line Level Inputs		116 dB	Network Wakeup		< 2 watts
Channel Separation			BTU		87 BTU/h
Phono Input		> 55 dB	Dimensions (W x H x D)		485 x 150 x 452 mm
Line Level Inputs		> 85 dB			(19 x 6 x 17 ³ / ₄ ins)
			Front Panel Height		132 mm, 5 ¹ / ₄ ins)
			Weight (net)		22.9 kg, 50.5 lb.

All specifications are accurate at the time of printing.

Michi reserves the right to make improvements without notice.

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