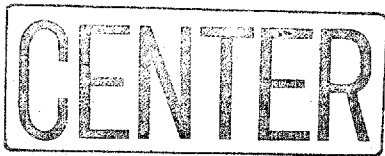


# YAMAHA MCX-10

## NATURAL SOUND MASTER ZONE CONTROLLER

Thank you for purchasing the YAMAHA MASTER ZONE CONTROLLER MCX-10. In order to ensure proper operation for the best possible performance, please read this manual thoroughly before connecting your new MCX-10 and turning it on.



### FEATURES

Let the MCX-10 control your favorite audio devices, and you will have a linked music system at your command. The Yamaha Custom Installation System is full of exciting features for your family entertainment.

1. You can control Yamaha or any other audio devices by the MCX-10 as long as they have an infrared remote control compatibility.
2. All the basic operations such as turning speakers on and off, selecting sources and changing the volume in any remote zones are controlled at the touch of a button from a distance.
3. The three types of output to the emitter (independent, selected, and all) may be used in any combination and thus allow you to build any system configuration to suit your need.

#### IMPORTANT!

Please record the serial number of your unit in the space below.

Serial No.:

The serial number is located on the rear of the unit.

Retain this Owner's Manual in a safe place for future reference.

#### WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

4. Up to five zones (rooms) may be controlled by a single MCX-10. The MCX-10 LINK terminal lets you connect a second MCX-10 to control up to ten zones.
5. If necessary, you can shut off all audio functions in any zone at the MCX-10.
6. The Remote-control Transmitter (RCX-10) has a smart "learning" capability. You can copy functions of remote controllers that came with your audio/visual equipment into the RCX-10.
  - \* To build a link system, you need a Zone Control/Sensor (WCX-10) and a "Learning" Remote-control Transmitter (RCX-10) in addition to the MCX-10.

## OWNER'S MANUAL

## PRECAUTIONS

1. To ensure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
2. Install your unit in a cool, dry, clean place — away from windows, heat sources, and too much vibration, dust, moisture or cold. Avoid sources of hum (transformers, motors). To prevent fire or electrical shock, do not expose to rain and water.
3. Never open the cabinet.
4. Do not use force on switches, knobs, or cords. When moving the unit, first unplug the AC adaptor and the cords connecting the other equipment. Never pull the cord itself.
5. Do not attempt to clean the unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
6. Unplug the AC adaptor when you do not plan to use the unit for an extended period of time.

## FCC INFORMATION (U.S.A.)

### 1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

**2. IMPORTANT:** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

**3. NOTE:** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this

product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Electronics Corp., U.S.A. 6722 Orangethorpe Ave, Buena Park, CA 90620

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

## WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the manufacture of this product contains LEAD. In addition, the electrical/electronic and/or plastic (where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

**DO NOT REMOVE ANY ENCLOSURE COMPONENTS!**  
There are no user serviceable parts inside. All service should be performed by a service representative authorized

by Yamaha to perform such service.

**IMPORTANT MESSAGE:** Yamaha strives to produce products that are both user safe and environmentally "friendly". We sincerely believe that our products meet these goals. However, in keeping with both the spirit and the letter of various statutes we have included the preceding messages and others in various locations in this manual.

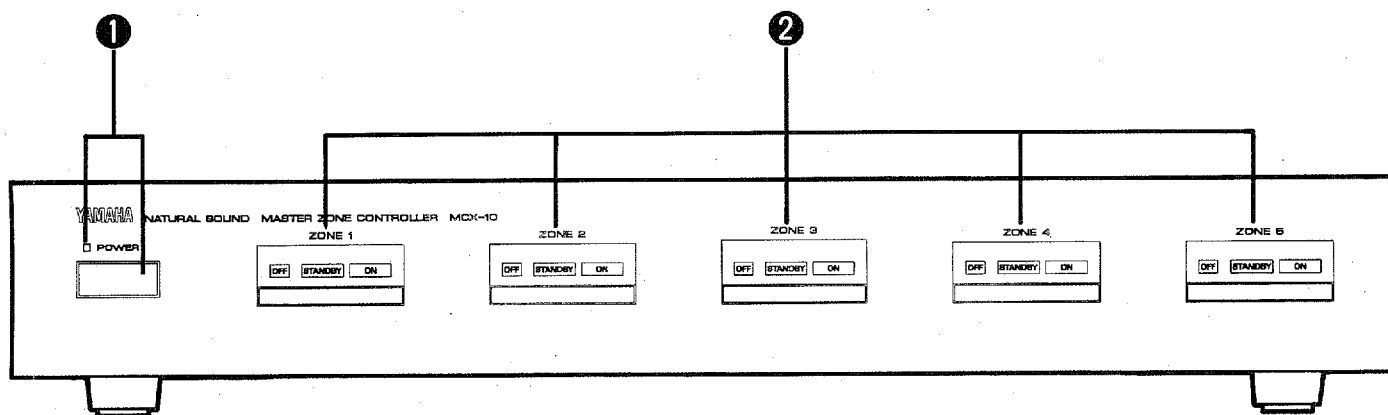
## CANADA

THIS DIGITAL APPARATUS DOES NOT EXCEED THE "CLASS B" LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL APPARATUS SET OUT IN THE RADIO INTERFERENCE REGULATION OF THE CANADIAN DEPARTMENT OF COMMUNICATIONS.

LE PRESENT APPAREIL NUMERIQUE N'EMET PAS DE BRUITS RADIOELECTRIQUES DEPASSANT LES LIMITES APPLICABLES AUX APPAREILS NUMERIQUES DE LA "CLASSE B" PRESCRITES DANS LE REGLEMENT SUR LE BROUILLAGE RADIOELECTRIQUE EDICTE PAR LE MINISTERE DES COMMUNICATIONS DU CANADA.

## COMPONENT NAMES AND THEIR FUNCTIONS

### ■ FRONT PANEL



#### ① POWER Switch and Indicator

When you press this switch, the indicator goes on and the MCX-10 is turned on. It is turned off and the indicator goes off when you push the switch the second time.

When it is turned off, it does not respond to the Remote-control Transmitter (RCX-10) or to the ON/STANDBY switch of the Zone Control/Sensor (WCX-10).

#### ② Zone Control Switch and Indicators

Each zone control switch lets you set the unit in the ON, STANDBY or OFF position. Each time you push the right-hand side of the switch, the activated indicator changes from OFF to STANDBY and to ON in this order. Pushing the left-hand side of the switch changes the activated indicator from ON to STANDBY and then to OFF in this order.

#### OFF position:

The MCX-10 does not respond to signals from the remote controller and no sounds are heard from the speakers.

#### STANDBY position:

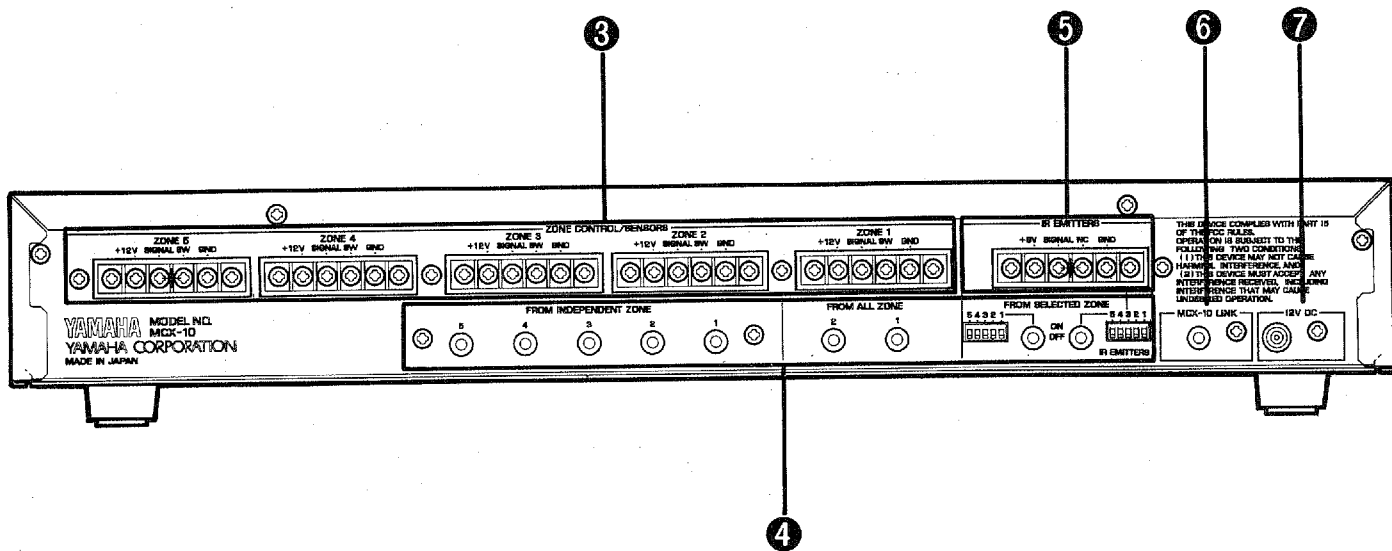
The Zone Control/Sensor (WCX-10) is in the standby state. It is turned on as soon as the Zone Control switch of the WCX-10 or the ROOM ON/OFF switch of the remote controller is pressed, and it begins to control individual audio devices in the selected zone.

#### ON position:

The selected audio equipment is ready for control and the speakers are turned on.

- \* The above mode selections are linked with the indicators on individual Zone Control/Sensors (WCX-10).
- \* All indicators (OFF—STANDBY—ON) remain off for zones to which no WCX-10 is connected.

■ REAR PANEL



**3 ZONE CONTROL/SENSORS Terminals**

These terminals supply control signals and electricity to each Zone Control/Sensor (WCX-10).

These terminals connect to terminals of the same names on individual Zone Control/Sensors (WCX-10). Each group (1 to 5) of terminals corresponds to the zone control switch indicator of the same zone number in the front panel.

**4 EMITTER Terminals**

**FROM INDEPENDENT ZONE:**

Remote-control signals in a zone are supplied from these terminals to the emitter of the same zone number.

**FROM ALL ZONE:**

All remote-control signals in all zones are supplied to the emitters.

\* Up to six emitters may be connected in series to each terminal.

**FROM SELECTED ZONE selection switch:**

Only remote-control signals for the zones selected by this switch are supplied to the corresponding emitters.

**5 Powered Emitter Output Terminals**

These terminals provide the same signals as those from right-hand FROM SELECTED ZONE terminal. Terminals have screw-on type fasteners so that wires of any type may be connected. They also provide +9V electricity.

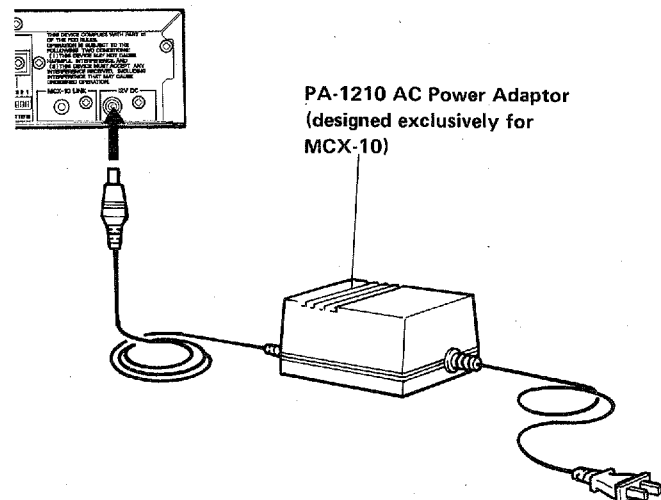
\* NC (no connection) terminal is left unused.

**6 MCX-10 LINK Terminal**

A second MCX-10 may be connected to this terminals to control up to ten zones.

**7 12V DC Jack**

Connect the PA-1210 External AC Power Adaptor (provided) to this jack.



## TROUBLESHOOTING

Before jumping to a conclusion that something in the system is faulty, please check equipment and connections carefully. The troubleshooting list below shows typical problems, their possible causes, and corrective actions that you can take yourself without having to call a service engineer. If you have any doubts or questions, contact your nearest YAMAHA dealer.

PROBLEM	CAUSE	REMEDY
The unit is not turned on when you push the SYSTEM POWER switch on the remote controller.	The ZONE CONTROL/SENSOR (WCX-10) is not in the STANDBY position.	Push the ZONE CONTROL switch on the front of the MCX-10 until the STANDBY indicator goes on.
No sounds from the speakers	The ZONE CONTROL/SENSOR (WCX-10) is not in the ON position.	Push the SYSTEM POWER switch on the remote controller or the ON/STANDBY switch of the ZONE CONTROL/SENSOR (WCX-10) to turn on the WCX-10.
The remote controller does not function at all.	The ZONE CONTROL/SENSOR (WCX-10) is not in the ON position.	Push the SYSTEM POWER switch on the remote controller or the ON/STANDBY switch of the ZONE CONTROL/SENSOR (WCX-10) to turn on the WCX-10.
	The emitter is positioned in the wrong place.	Reposition the emitter so that the infrared beam hits the photosensor of the audio equipment.
	The control signal lines or audio equipment are connected incorrectly.	Check and correct connections as necessary.
	Direct sunlight or lighting (of an inverter type of fluorescent lamp etc.) is striking the remote control sensor of the main unit.	Avoid light.

**Dimensions (W x H x D)** ..... 435 x 72 x 307.5 mm (17-1/8" x 2-7/8" x 12-1/8")  
**Weight** ..... 3 kg (6 lbs. 10 oz.)  
**Accessories** ..... PA-1210 External AC Power Adaptor  
Connection cable

# YAMAHA

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