

Numark® CM200SM

PROFESSIONAL 19" MIXER

Quick Start Owner's Manual

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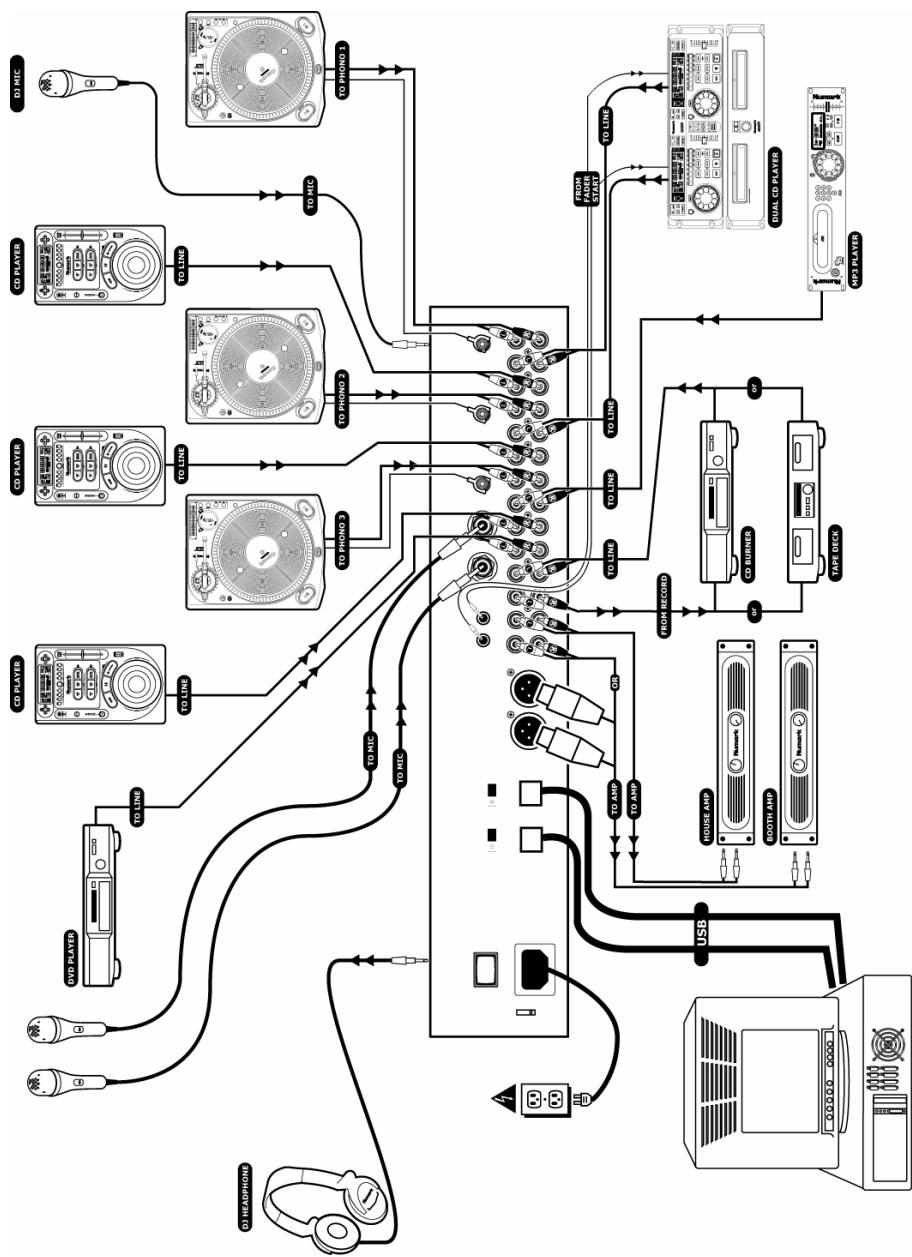
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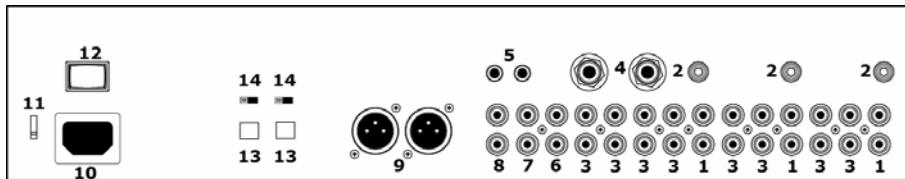
- MIXER
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MIXER QUICK SETUP

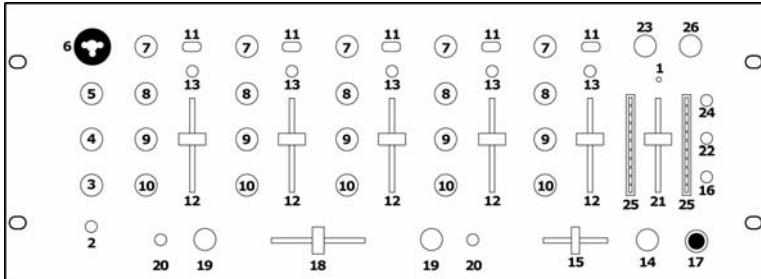
1. Make sure all items listed on the front of this guide are included in the box.
2. **READ SAFETY INSTRUCTION BOOKLET BEFORE USING THE PRODUCT.**
3. Study this setup diagram.
4. Place mixer in an appropriate position for operation.
5. Make sure all devices are turned off and all faders and gain knobs are set to "zero"
6. Connect all stereo input sources as indicated in the diagram.
7. Connect the stereo outputs to power amplifier(s), tape decks, and/or other audio sources.
8. Plug all devices into AC power.
9. Switch everything on in the following order.
 - audio input sources (i.e. turntables or CD players)
 - mixer
 - last, any amplifiers or output devices
10. When turning off, always reverse this operation by.
 - turning off amplifiers
 - mixer
 - last, any input devices
11. Go to <http://www.numark.com> for product registration.

More information about this product may be found at <http://www.numark.com>



REAR CONNECTIONS

1. **Phono Inputs:** This input is used for connecting your turntables through the sensitive RIAA phono preamplifiers. Only turntables with phono level output should be attached. Line level turntables must be attached to the line inputs.
2. **GND:** This screw connector should be used to secure any turntables or other devices connected to the mixer that need to be grounded.
3. **Line Inputs:** CD players, Tape Decks, Samplers or other line level input devices should be connected to these inputs.
4. **Microphone Input:** Microphones with a 1/4" connector can be connected to these input terminals.
5. **Fader Start Connector:** to attach your mixer to a remote start equipped Numark CD player using industry standard 1/8"(3.5mm) cables.
6. **Record Output:** This RCA output is for connecting a recording device such as a tape deck or CD recorder. The level of the record output is based upon pre-master levels.
7. **Zone Output (RCA):** This output is for connecting an external monitoring device such as a PA system, powered monitors or a home stereo. The level of the zone stereo output signal is controlled by the zone fader.
8. **Master Output (RCA):** This output is for connecting an external monitoring device such as a PA system, powered monitors or a home stereo. The level of the master stereo output signal is controlled by the master fader.
9. **Stereo Balanced Master Outputs (XLR):** low-impedance XLR type connectors controlled by the Master fader.
10. **AC In:** This mixer is designed to work with the power supply cord that comes with the unit. While the power is switched off, plug the power supply into the mixer first, then plug it into the outlet.
11. **Voltage Selector:** Set this to the correct voltage for your location standard.
12. **Power Switch:** Use this switch to turn on the mixer after all input devices are already connected to prevent damage to your equipment. Turn the mixer on before you turn on amplifiers and turn off amplifiers before you turn off the mixer.
13. **USB Jack:** This sends and receives audio data from your computer. The USB A Jack sends audio to the mixer's channel 3, while the USB B Jack sends audio to channel 4. See the separate instructions for how to use your USB mixer with a computer.
14. **USB Output Select Switches:** These switches select what signal is output through each USB jack. For the USB A jack, you can output either the Record output signal, or a direct output of the signal going into channel 3. For the USB B jack, you can output either the Master output signal, or a direct output of the signal going into channel 4. The direct output settings are pre-fader, with no effects applied to the signal.



FRONT PANEL FEATURES

1. **Power LED:** Illuminates when the mixer is on.
 2. **Mic ON/OFF:** Toggles activation of the DJ Mic.
 3. **Mic Gain:** This knob adjusts the volume of the microphone input.
 4. **Mic Bass:** This knob adjusts the low-tone of the microphone.
 5. **Mic Treble:** This knob adjusts the high-tone of the microphone.
 6. **XLR/1/4" Combo Microphone Input Jack:** Connect your DJ mic at this location.
 7. **Channel Gain:** This rotary control adjusts the pre-fader input level.
 8. **Channel Treble:** This rotary control adjusts the high-tone level.
 9. **Channel Middle:** This rotary control adjusts the middle-tone level.
 10. **Channel Bass:** This rotary control adjusts the low-tone level.
 11. **Input Selector:** This toggles select what input source is routed to the channel from the rear panel connected units.
 12. **Channel Fader:** This slide fader is used to adjust the level sent to program mix.
 13. **Cue Button:** pressing this button sends post gain, post EQ, and pre channel fader level audio the PFL "Pre-fader level" section of the headphone cue.
 14. **Headphone Volume:** This rotary control adjusts the volume level of the headphone output.
 15. **Headphone Mix:** Program level and PFL (CUE) signal levels can be mixed by this slider. When all the way left, audio heard will be determined by Cue Button selections. When all the way right final only (PGM) program mix audio will be heard.
 16. **Split/Blend Button:** When in the down position, headphone audio will be split so mono PFL audio is in the left ear and mono PGM audio is in the right ear. When the button is up, stereo PFL and PGM audio will be mixed (blended).
 17. **Headphone Jack:** Your headphones can be connected to this 1/4" terminal. The volume should always be set at its lowest setting while connecting and disconnecting headphones to prevent damage to headphones and/or your hearing.
 18. **Replaceable Crossfader:** This slide fader blends audio between the channels assigned to the left and right assign switches.
- Note:** This fader is user replaceable if it should ever wear out. Simply remove the facepanel and then remove the screws holding it in position. Replace the fader with a quality authorized replacement from your local Numark retailer.
19. **Assign Knob:** Rotary position determines which input channel will be heard when the crossfader is moved towards this knob. Volume levels of channels not selected will be determined only by the individual channel sliders.
 20. **Fader Start:** activates the crossfader to send play and cue digital pulse commands to your auto-start Numark CD player or other popular brand. For fader start, attach your mixer to a remote start CD player using industry standard 1/8"(3.5mm) cables. When you move the crossfader toward the active channel, the attached CD player will start. When it is moved away, that side will cue (similar to pressing the cue button) or stop depending upon brand of CD player.
 21. **Master Slider:** This control adjusts the main output volume using the PROGRAM audio as a source.
 22. **Stereo/Mono toggle:** adjusts the **Master** output for stereo or mono operation.
 23. **Panning:** adjusts the balance of right to left audio in all outputs (Master, Record, Zone).
 24. **Meter Assign:** determines whether PFL or post master level audio is sent to the stereo LED meter.
 25. **Stereo Level Indicator:** quickly and accurately tracks level of audio sent to it. **When using as a master output meter,** set the crossover, equalizer and power amp inputs to avoid distortion at each step in the audio chain. Proper attention to the peak meter results in the punchiest possible sound without audible distortion. **When used to adjust the PFL levels,** PFL cue signal is sent to the meter through the cue assign buttons. Accurately match channel levels with the Pre-fader gain and EQ controls before mixing them together. **The idea is to properly match PFL inputs,** not the input with the stereo output meter!
 26. **Booth/Zone Fader:** controls volume for a remote zone or booth monitors using PROGRAM audio as a source.
- Note:** This could also be used to supply line level audio to a lighting controller or to lights that are sound activated.

CM200USB SPECIFICATIONS

Inputs

Line:	10Kohm input impedance 77mV rms sensitivity for 1.22V output
Mic:	600 ohm input impedance unbalanced 1mv rms sensitivity for 1.22V output 70mV rms max input
Phono:	47Kohm input impedance 1.2mV rms sensitivity @1KHz for 1.22V output

Outputs

Line:	9V rms max
Headphone:	0.5W into 47 ohm
Distortion:	less than 0.01%

Signal to Noise Ratio (maximum output) JIS-A weighted

Line:	Better than 98dB
Mic:	Better than 86dB
Phono:	Better than 81dB

Frequency response

Line:	20Hz-20KHz ±0.5dB
Mic:	20Hz-15KHz ±0.5dB
Phono:	±1dB except for controlled attenuation of -3dB @ 20Hz to reduce rumble and feedback

Channel equalizer

Bass:	+12/-32dB @60Hz
Middle:	+12/-32dB @1.2KHz
Treble:	+10/-28dB @15KH

DJ mic equalizer

Bass:	±10dB @100Hz
Treble:	±10dB @15KH

Power consumption

11 Watt typical
14.7 Watt with full headphone output