

QUICK START

If you are too excited to read the manual, at least read this page to minimize any potential mistakes (we know you don't make any). Be sure your amplifier is off while making connections, and every time you turn on your system, apply power to your amplifier *last*.

The most common assumption is that the cables you already have will work. Well, let's be sure first. None of your RCA cables should be longer than 10 feet (3 meters) or you are asking for hum. The **MAIN** and **AUX OUTPUTS** are balanced ¼" TRS (tip-ring-sleeve) connectors, allowing you to run long lines if necessary with properly balanced cables. If you really have to use unbalanced (tip-sleeve) cables, keep them as short as possible (well under 10 feet [or 3 meters]). If you are connecting balanced devices (3-conductor) to either Input of the MP 2S, or are sending the Output to an unbalanced equalizer or amplifier, consult the included RaneNote "Sound System Interconnection" for proper wiring.

The MP 2S has 3 sets of Outputs. The **HOUSE OUTPUT** is set by the front panel **HOUSE LEVEL** control. The **AUX OUTPUT** is set by the rear panel screwdriver adjusted **AUX LEVEL** control. The **TAPE OUTPUT** is fixed. All Output level

controls are independent of each other. The only Level controls that affect all Outputs simultaneously are the **PROGRAM A** and **B LEVEL** controls.

If you bring a phono signal into **P1** or **P2** be sure to keep the **PHONO** switch *in*; likewise when connecting a CD player to this input, be sure the **PHONO** switch is *out*.

Start with the **HOUSE LEVEL** all the way down so you don't scare the neighbors. Start with the Crossfader all the way to the left (**PROGRAM A**). Select an **INPUT** for **PROGRAM A** and another for **PROGRAM B** and start playing your sources. Set the **LOW** and **HIGH** controls to the center. Adjust the **PROGRAM LEVEL** controls so the bottom three (-24, -12, and 0) indicators light up. If the +12 indicator flashes, turn down its **PROGRAM LEVEL** control. Now slowly turn up the **HOUSE LEVEL** so you can hear things working. Moving the Crossfader to the right brings in the source selected on **PROGRAM B**.

The headphone cue system is simple: The **PAN** controls the headphone mix between the Program going to the **HOUSE** and what is on **CUE**, determined by the **CUE** switches.

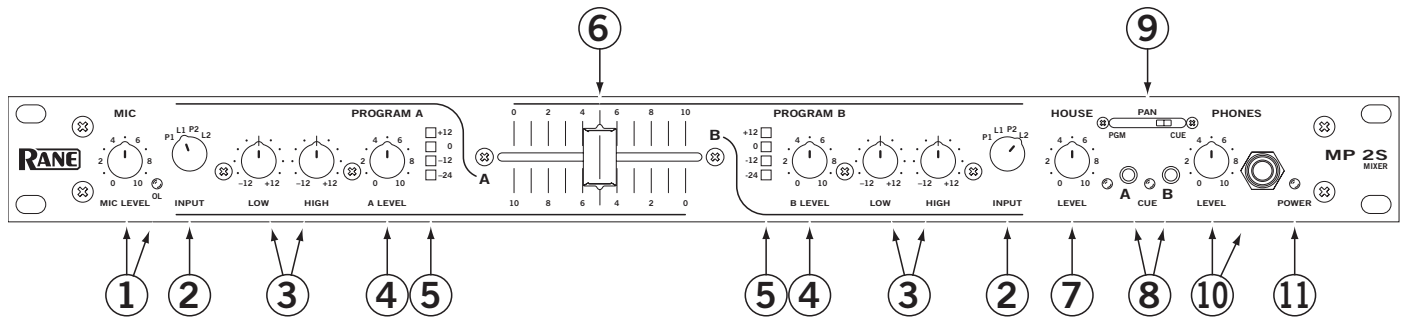
A clean Crossfader is happy, behaved and long-living. See the **Fader Cleaning** instructions on page Manual-4.

WEAR PART

This product contains the following wear part subject to the ninety (90) day warranty period described on page Warranty-1:

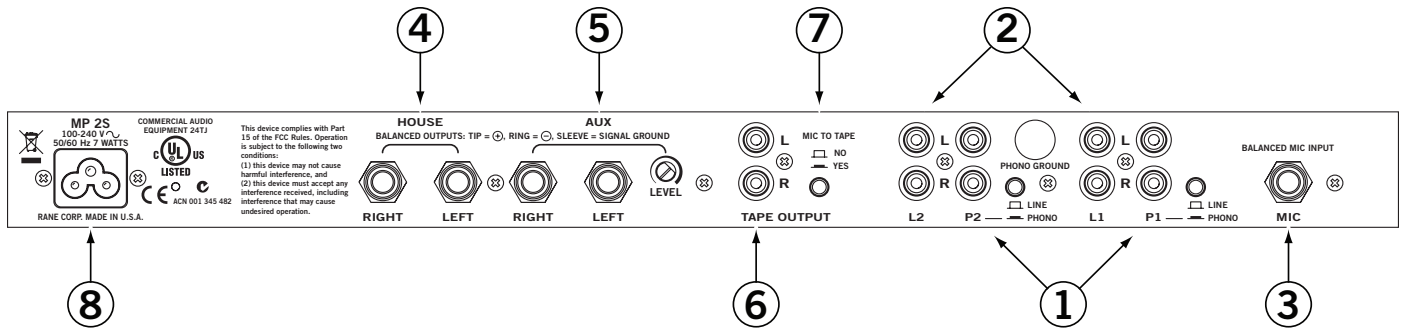
(1) Active Crossfader #11646.

FRONT PANEL DESCRIPTION



- ① **MIC LEVEL control:** adjusts the Level of the MIC Input. The **OL** (overload) indicator lights when the maximum mic level has been reached, 3 dB before clipping. *If this lights up, either turn the MIC LEVEL down, or stop yelling.*
- ② **Program INPUT selectors:** provide Input selection between the two Phono and two Line Inputs for each of the Program A or Program B channels.
- ③ **Program LOW and HIGH controls:** adjust the equalization for each of the Program channels. Pointing these controls straight up at their center detents takes the tone controls out of the path. This is not designed to be the only equalizer in the system, this is intended to adjust tone between varying program materials. We recommend an external graphic equalizer for the best system sound, connected between the MASTER OUTPUTS and the amplifier.
- ④ **Program LEVEL controls:** set the volume of each Program Input, as you would expect! These controls are pre-Crossfader, so both Program Level controls also depend on the Crossfader setting (see ⑥).
- ⑤ **Program meter:** shows signal presence (at -24), optimum signal level (at around 0), and a warning to turn down the associated LEVEL control if the +12 indicator lights up.
- ⑥ **Active Crossfader:** controls the mix of Program A and B Levels in a logical manner. When the Crossfader is all the way left, only Program A is heard. When it's all the way right, only Program B is heard. When it's right in the middle, both Program A and B are mixed together equally. This is an *Active Crossfader™* which uses a VCA to deliver an extended life and reduced travel noise. To insure trouble-free operation, see *Fader Cleaning* on page Manual-4.
- ⑦ **HOUSE LEVEL control:** adjusts the Output Levels of the MAIN OUTPUTS.
- ⑧ **Phone CUE switches:** select Program A or B in any combination. The associated yellow indicator lights when a CUE is activated and pressed *in*. Depressing a button sends Program to the CUE side of the PAN control. For example, when the Crossfader is to the left (playing Program A to the House), listen to CUE B (Program B) on the headphones to audition, match beats or prepare its starting point.
- ⑨ **Phone PAN control:** changes the relative levels of the Cue and Program mixed together in stereo for the headphones. PGM follows the Main (House) Output; Cue is determined by the CUE switches and only goes to the headphones. Adjust this control anywhere between Program and Cue.
- ⑩ **PHONES LEVEL and headphone jack:** As you guessed, plug your headphones in here and adjust the overall volume with the LEVEL control.
- ⑪ **POWER indicator:** illuminates to let you know that the MP 2S is plugged in and ready to rock.

REAR PANEL DESCRIPTION



- ① **PHONO/LINE 1 & 2 INPUTS:** are switchable from a PHONO (RIAA) stage for magnetic cartridges (PHONO, switch *in*) to a LINE level Input suitable for any line level device such as a CD player (LINE, switch *out*). The **PHONO GROUND screw** connects to those extra green wires coming out of the turntables.
- ② **LINE 1 & 2 INPUTS:** connect to stereo sources such as CD players or any line-level device. L1 and L2 may be assigned to Program A or Program B via the front panel INPUT switches.
- ③ **MIC Input:** accepts a 1/4" balanced (TRS) or unbalanced (TS) microphone cable, controlled by the MIC LEVEL control on the front panel.
- ④ **HOUSE OUTPUT:** The front panel HOUSE LEVEL control affects the volume at this Output. These balanced 1/4" TRS (tip-ring-sleeve) Outputs connect to a balanced equalizer or amplifier. Though not recommended, unbalanced 1/4" TS (tip-sleeve) cables may be used for short runs (under 3 meters [10 feet]) to an amplifier with unbalanced inputs. See the RaneNote "Sound System Interconnection" for wiring recommendations.
- ⑤ **AUX OUTPUT:** This delivers the same signal as the HOUSE OUTPUT, but has its own LEVEL control on the rear panel. *This Output is not affected by the front panel HOUSE LEVEL control.* These balanced 1/4" TRS (tip-ring-sleeve) Outputs connect to a balanced equalizer or amplifier (for a possible second listening zone) and follow the same interconnection rules as above.
- ⑥ **TAPE OUTPUT:** These line-level RCA Outputs are intended for use with a tape recorder, but not necessarily restricted to that purpose. Be creative! *These Outputs are not affected by the HOUSE LEVEL or AUX LEVEL controls.*
- ⑦ **MIC to TAPE switch:** In the YES position the Mic signal along with the Program Inputs are routed to the TAPE OUTPUT. In the NO position only the Program Inputs appear at the TAPE OUTPUT.
- ⑧ **Universal Voltage Input:** via a miniature IEC 60320 C6 appliance inlet. With the right cord, you can plug anywhere in the world between 100 and 240 VAC. This mates with an IEC 60320 C5 line cord (USA domestic). Do **not** lift the ground connection!

Fader Cleaning

With heavy use in harsh environments, the faders may need lubrication. This treatment extends longevity and can make used faders as good as new. The fader assembly must be removed from the MP 2S for proper cleaning. We recommend any of the following cleaning solutions:

Caig DeoxIT FaderLube F100 spray lubricant (www.caig.com)

Caig DeoxIT FaderLube F5 spray cleaner (www.caig.com)

CRC 2-26 (www.crcindustries.com)

Order DeoxIT® from:
CAIG Laboratories, Inc.
12200 Thatcher Ct.
Poway, CA 92064
Phone 858-486-8388
Fax 858-486-8398
Web www.caig.com

CLEANING INSTRUCTIONS

A. Fader assembly replacement (part #11646)

1. Unplug the MP 2S.
2. Remove the bottom cover.
3. Remove the fader screws from the front panel.
4. Draw fader assembly out through the bottom.
5. Remove ribbon cable from old fader.
6. Attach ribbon cable to new fader, screw onto front panel and replace bottom cover.

B. Fader cleaning

1. Hold the fader assembly away from the mixer.
2. Position the fader at mid-travel.
3. Spray cleaner/lubricant into both ends of the fader in sufficient amounts to flush debris.
4. Move the fader over its full travel back and forth a few times.
5. Shake excess fluid from the fader assembly.
6. Wipe off excess fluid.