



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for RANE TTM 52. You'll find the answers to all your questions on the RANE TTM 52 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual RANE TTM 52  
User guide RANE TTM 52  
Operating instructions RANE TTM 52  
Instructions for use RANE TTM 52  
Instruction manual RANE TTM 52

## RANE OPERATORS MANUAL TTM 52 MOJO PERFORMANCE MIXER



### Quick Start

Rane would like to thank you for selecting the TTM 52 Performance Mixer. The TTM 52 is one of the top performance mixers available. It features the same high quality components, reliability and performance as the Rane TTM 54 mixer with a reduced feature set (see the comparison chart on the last page of the Data Sheet, contained in this manual.) For experienced turntablists, the operation of the TTM 52 will be very familiar, however, the TTM 52 has some unique features. These new features will be mastered more quickly if you read the entire manual. *Right!* We know some of you can't resist jumping right in, so please read at least this portion of the manual. It will help you get a good start and learn how to properly care for your faders.

- **GAIN TRIM:** These controls are intended to set the signal level *before* the Crossfader. *Always* set the **GAIN TRIM** controls to indicate an *average* signal level of +4 on the meter with the **Program Faders** set to *maximum*. *Never* use the **GAIN TRIM** controls to set the output level. *Always* use the **MASTER LEVEL** control to set the output level. *This is a very simple thing, yet makes a huge difference in the performance of your mixer.*
- **PHONES:** The headphone output of the TTM 52 is a *high power* output stage (unlike most you have used before). There are some notable differences...
  - The headphone output of the TTM 52 delivers *very high* volume into your headphones.
  - To avoid pain, *never* put headphones on your head and *then* plug them in.
  - *Always* start with the **PHONES LEVEL** turned down and then turn it up to the desired level
  - Because of the high current and low output impedance, *never* short one side to ground or short left and right together as is possible with mono cup headphones. *Note: Low power headphone stages typically use large resistors on their outputs, which allow shorting, but prevent high power. The TTM 52 gives you high power but does not allow shorting.*
- **MIC LEVEL:** For best performance, keep this control at 0 when not in use.
- For instructions on *rotating Phono/Line* switches to the desired location, see page Manual-6.
- *Do not spray cleaner* or lubricant into the front of the **Program Faders** or **Crossfader**. The fluid will just run out the bottom of the unit. *Never use unapproved cleaner* or lubricants such as skateboard wheel lube, as corrosive damage may result, voiding the warranty. See page Manual-6 for cleaning and replacement instructions and cleaner recommendations.
- *Never connect anything except an RS 1 or other approved Rane AC power supply to the thing that looks like a telephone jack on the rear.* This is an 18 VAC center-tapped power unit. Consult the Rane Factory for replacement or substitution.
- **WEAR PARTS:** This product contains the following wear parts subject to the ninety (90) day warranty period described on page Service-1: FT 45 Active Crossfader & Channel Fader Assembly(3); ST 1 Phono/Line Switch Assembly (2).

Manual-1



[You're reading an excerpt. Click here to read official RANE TTM 52 user guide](http://yourpdfguides.com/dref/3395654)

<http://yourpdfguides.com/dref/3395654>

### Manual abstract:

The TTM 52 is one of the top performance mixers available. It features the same high quality components, reliability and performance as the Rane TTM 54 mixer with a reduced feature set (see the comparison chart on the last page of the Data Sheet, contained in this manual.) For experienced turntablists, the operation of the TTM 52 will be very familiar, however, the TTM 52 has some unique features. These new features will be mastered more quickly if you read the entire manual. Right! We know some of you can't resist jumping right in, so please read at least this portion of the manual. It will help you get a good start and learn how to properly care for your faders. **GAIN TRIM:** These controls are intended to set the signal level before the Crossfader. Always set the GAIN TRIM controls to indicate an average signal level of +4 on the meter with the Program Faders set to maximum. Never use the GAIN TRIM controls to set the output level. Always use the MASTER LEVEL control to set the output level.

This is a very simple thing, yet makes a huge difference in the performance of your mixer. **PHONES:** The headphone output of the TTM 52 is a high power output stage (unlike most you have used before). There are some notable differences...

The headphone output of the TTM 52 delivers very high volume into your headphones. The TTM 52 gives you high power but does not allow shorting. **MIC LEVEL:** For best performance, keep this control at 0 when not in use. For instructions on rotating Phono/Line switches to the desired location, see page Manual-6. The fluid will just run out the bottom of the unit.

See page Manual-6 for cleaning and replacement instructions and cleaner recommendations. Never connect anything except an RS 1 or other approved Rane AC power supply to the thing that looks like a telephone jack on the rear. This is an 18 VAC center-tapped power unit. Consult the Rane factory for replacement or substitution. **WEAR PARTS:** This product contains the following wear parts subject to the ninety (90) day warranty period described on page Service-1: FT 45 Active Crossfader & Channel Fader Assembly(3); ST 1 Phono/Line Switch Assembly (2). Manual-1 6V 9DPQS@8DTDPI 6HQAS @R 6H QGq7 AS@RC #I PW(") )\$\$ ! ' % # ! ' % # ! ! # % ' ! # % ' ! ! x x !x Figure 1. Bass & Treble Controls PGM 1 and PGM 2 input GAIN TRIM controls are used to adjust input level. With the Program Faders (see ) at maximum, set controls to give a peak reading of +4 on the meter. Set the Master Level to minimum while adjusting. It is always best to run the input level at +4 to +7.

Use the MASTER LEVEL (see ) control to adjust the volume at the MASTER OUT (see ). BASS and TREBLE controls provide 12 dB of EQ for PGM 1 and PGM 2. The graph shown in Figure 1 indicates the response of the filters. BALANCE controls are used for LEFT/RIGHT balance of PGM 1 and PGM 2 or for LEFT/RIGHT Pan effect. Push the control to the left and sound moves to the left channel. Push the control to the right and sound moves to the right channel. PHONO / LINE source select switches are provided for PGM 1 and PGM 2. HAMSTER switches are provided for PGM 1 and PGM 2 Program Faders. These switches reverse the operation of the adjacent Program Fader. Ten segment resolution is provided with a one second peak hold indication.

With the Program Fader set to maximum, the input GAIN TRIM should be set to indicate an average level of about +4. Crossfader control is implemented using Ranes' proprietary ActiveFader™ design. As with the Program Faders, all audio is isolated from the control element, greatly extending the life and performance of the control. See page Manual-6 for cleaning and replacement instructions CROSSFADER CONTOUR control allows adjusting the "shape" of the Crossfader response from a gentle curve for smooth, long running fades, to the steep pitch required for top performance cut and scratch effects shown in Figure 3. CROSSFADER HAMSTER control allows reversing the operation of the Crossfader.

The TTM 52 gives you high power but does not allow shorting. This signal is not affected by the Program Faders or Crossfader. PHONES PAN control is only active when CUE is selected. This control allows you to PAN between Program 1 or Program 2. Do NOT use single cup phones that short tip and ring.

POWER connector. This is not a telephone jack! Connect only the Rane RS 1 power supply included with your TTM 52. See Chassis Grounding on page Manual-6. See Sound System Interconnection on page Manual-7. PGM 1 and PGM 2 inputs include both PHONO and LINE input. PHONO/LINE selection is made as described in section . PGM 1 inputs are sent to the left side of the Crossfader. It is very important that each turntable have a very good ground connection to one of these terminals. The thumb screws are not captivated, so use care not to spin them off and lose them. The MIC INPUT is a balanced " TRS input specifically designed for a dynamic microphone.

MIC EFFECTS jacks are unbalanced mono " Tip/Sleeve. This is an independent Effects Loop for the mic. There is no engage switch, so the mic signal is always processed when you have an effects box connected. The SEND jack provides the output to your effects processor. The RETURN jack provides an input for the signal returning from your effects processor. MIC LEVEL sets the gain of the Mic Input. The range of operation is off to +60 dB. There is no engage switch, so set the Manual-4 MIC LEVEL to 0 when not in use. The OL indicator lights 6 dB before clipping. Here are some things to try: 1. 2. 3. 4. Make sure that this unit is grounded either to another chassis which is earth grounded, or directly to the grounding screw on an AC outlet cover by means of a wire connected to a screw on the chassis with a star washer to guarantee proper contact (see ). Please refer to Sound System Interconnection on page Manual-7 for further information on system grounding.

Manual-5 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 TTM 52 for proper cleaning. We recommend any of the following cleaning solutions: Caig Cailube MCL 100% spray lubricant Caig Cailube MCL 5% spray cleaner CRC 2-26 Order CaiLube MCL from: CAIG Laboratories, Inc. 12200 Thatcher Ct. Poway, CA 92064 Phone 619-486-8388 Fax 619-486-8398 Web <http://www.caig.com> CLEANING INSTRUCTIONS A. Front panel removal 1. Disconnect the power cord. 2. Remove (3) slide fader knobs. 3. Remove (4) #4-40 front panel screws. Faders and switches are now accessible.

B. Fader assembly removal To remove any single fader: 1. Remove (2) 3mm screws. 2. Draw fader assembly out through hole. 3. Remove ribbon cable. C. Fader cleaning 1. Hold the fader assembly away from the mixer.



[You're reading an excerpt. Click here to read official RANE TTM 52 user guide](http://yourpdfguides.com/dref/3395654)  
<http://yourpdfguides.com/dref/3395654>

2. Position the fader at mid-travel. 3. Spray cleaner/lubricant into both ends of the fader. 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.

D. Fader assembly installation 1. Connect the ribbon cable to the fader assembly. 2. Place the fader assembly in position with the ribbon connector to the right side or top, as shown. 3. Line up the fader screw holes with the mixer mounting holes. 4. Install (2 provided) 3mm screws. Using the wrong screw will ruin the fader! 5.

Replace the front panel and knobs. Figure 4. @@Remove the metal faceplate with a #2 Phillips screwdriver. 2. Remove nut and key washer while holding bottom of switch assembly. 3. Rotate or install switch with key pointing to desired PHONO position. 4. @@The fact that many modern day installers still follow this one-end-only rule with consistent success indicates this and other acceptable solutions to RF issues exist, though the increasing use of digital and wireless technology greatly increases the possibility of future RF problems. See the following page for suggested cable assemblies for your particular interconnection needs.

@@Soldering should only be attempted by those trained in the art. SUMMARY If you are unable to do things correctly (i.e. @@WINNING THE WIRING WARS Use balanced connections whenever possible. @@@@ Any unbalanced cable must be kept under ten feet (three meters) in length.

Lengths longer than this will amplify the nasty side effects of unbalanced circuitry's ground loops. This information was condensed from Rane Note 110, "Sound System Interconnection". If you would like the complete note, call or email the factory, download it from Rane's web site <http://www.rane.com>, or ask your dealer for a copy.

Manual-7 VARIOUS XLR, RCA & " CABLE ASSEMBLIES Rane Corporation 10802 47th Ave. W., Mukilteo WA 98275-5098 TEL (425)355-6000 FAX (425)347-7757 WEB <http://www.rane.com> Manual-8 103289 .



[You're reading an excerpt. Click here to read official RANE TTM 52 user guide](#)

<http://yourpdfguides.com/dref/3395654>