

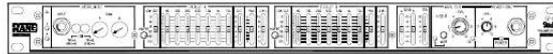


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You can read the recommendations in the user guide, the technical guide or the installation guide for RANE SP 13. You'll find the answers to all your questions on the RANE SP 13 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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RANE OPERATORS MANUAL **SP 13**
STICK PREAMP



QUICK START

The SP 13 accommodates the signals from two pickups from a Stick® instrument, where the pickups are wired to the tip and ring of a standard stereo 1/4" TRS (Tip, Ring, Sleeve) plug. You do not need internal preamps when using the SP 13.

1. Slide the Input Wiring switch to the correct position agreeing with your pickup wiring situation.
2. Turn the MAIN OUT LEVEL controls down.
3. Connect the SP 13 to your amplifier using the 1/4" MAIN OUTPUTS or use the HEADPHONE jack.
4. Initially, turn the A and B INSTRUMENT GAIN TRIM controls half way up.
6. Move each LOW CUT slider to the top (15 Hz); center all EQ sliders; center the PAN sliders; leave the INVERT pushbuttons out; and position the LEVEL sliders to "4".
7. Plug in the instrument to the INPUT jack on the front of the SP 13 with a stereo 1/4" TRS cable.
8. Power up the SP 13, then turn on your amplifier.
9. Play your instrument and slowly turn up the MAIN OUT LEVEL controls. You should hear sound from your speakers. If not, recheck all settings and wiring, and read the next few pages.

Never connect anything except an approved Rane power supply to the red thing that looks like a telephone jack on the rear of the unit. This is an AC input and requires special attention if you do not have a power supply exactly like the one originally packed with your unit. See the full explanation of the power supply requirements elsewhere in this manual.

WEAR PARTS: This product contains no wear parts.

Manual-1



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Manual abstract:

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Move each LOW CUT slider to the top (15 Hz); center all EQ sliders; center the PAN sliders; leave the INVERT pushbuttons out; and position the LEVEL sliders to "4" 7. Plug in the instrument to the INPUT jack on the front of the SP 13 with a stereo 1/4" TRS cable. 8. Power up the SP 13, then turn on your amplifier. 9.

Play your instrument and slowly turn up the MAIN OUT LEVEL controls. You should hear sound from your speakers. If not, recheck all settings and wiring, and read the next few pages. Never connect anything except an approved Rane power supply to the red thing that looks like a telephone jack on the rear of the unit. This is an AC input and requires special attention if you do not have a power supply exactly like the one originally packed with your unit.

See the full explanation of the power supply requirements elsewhere in this manual. WEAR PARTS: This product contains no wear parts. Manual-1 FRONT PANEL DESCRIPTION Stick® INSTRUMENT INPUT: is a stereo 1/4" TRS (Tip-Ring-Sleeve) INPUT jack for use with a Stick instrument with two pickups; Use a balanced or stereo 1/4" shielded cable to connect your instrument to this Input. However, this also accepts a mono input. When using a mono cable, signal is routed to the TIP selected by the Input Wiring Switch (see). @@@@Input wiring switch: allows choice of Input wiring. Either TIP=A and RING=B, or vice-versa. Input INSTRUMENT GAIN trims: set the proper Gain for each pickup. Range is from 6 dB minimum to 60 dB maximum. @@Either A or B PICKUPS may be individually Inverted.

@@@Use to reduce unwanted low frequencies in either A or B Pickups. 7-band graphic equalizer boost/cut controls: set the amount of boost/cut for each of the indicated bands in both Pickups A and B. A grounded center detent guarantees flat response for filters not used. PICKUP A OUT control: adjusts the level of the AUX OUTPUT jack. This Output is independent of the LEVEL and MAIN OUT LEVEL controls. PAN controls: for both PICKUPS A and B allow signal routing anywhere between MAIN OUT A and B. LEVEL controls: for both PICKUPS A and B set the overall Level of each signal. SEND A/B controls: adjust the amount of signal at each of the SEND jacks (to external signal processing). RETURN control: is a "stereo" Return. Controls the amount of A and B entering the RETURN jacks.

MAIN OUT MUTE button: cuts off the signal to both A and B Main Outputs. Does not affect the Headphone Output. The red LED indicates Muted Output. MAIN OUT A & B LEVELS: are concentric controls used to separately set the Main A & B Output Levels. MAIN OUT OVERLOAD indicator: monitors both A and B Main Outputs.

An overload condition (within 4 dB of clipping) on either Output causes this red indicator to light. HEADPHONE LEVEL: controls the volume of the HEADPHONE Output jack. POWER indicator: glows yellow when the proper power supply is connected and powered. Headphone jack: Accepts standard stereo headphones rated from 32-600 ohms equipped with a 1/4" TRS plug. Manual-2 REAR PANEL DESCRIPTION MAIN OUTPUTS--MIC-level: Two XLR connectors used as a direct feed to mixing console mic inputs.

Pin 2 is "+" positive, pin 3 is "-" negative, and pin 1 is signal ground. MAIN OUTPUTS--LINE-level: Two 1/4" TRS (Tip-Ring-Sleeve) connectors deliver the Main A & B Line Level Outputs. No surprises here: the tip is "+" positive, the ring is "-" negative and the sleeve is signal ground. MAIN OUTPUTS MONO button: Engaging this pushbutton combines (or Monoes) the Main A & B Output. EXPAND IN A & B jacks: Two unbalanced 1/4" TS jacks used to expand the SP 13. These Inputs sum (pre-Main Level control) with the Main A & B signals. Mono expansion is done using only the EXPAND IN A jack.

@@@@@Mono signals use only the RETURN A jack. @@@@Mono effects units should wire only to the SEND A jack. @@The PICKUP A OUT slider controls the amount of signal.

@@@@@For convenience, the tuner may be left connected during performances. @@Normally, this switch should be in the "grounded" position. @@@@The power requirements call for an 18 VAC center-tapped transformer. This is not a telephone jack. @@@@@@Here are some things to try: 1. @@2. @@3. @@@@@@Unity Gain is located at approximately 9:00. To set the Gain use a screw driver, guitar pick, or other suitable tool to turn the trims clockwise until a very strong input signal (e.g.

strumming a loud chord) causes the overload LED to flicker occasionally. For extra headroom, turn the trims slightly counterclockwise. SETTING UP EACH PICKUP Start by turning one of the Pickup LEVEL controls to off or "0", and the other one to "10". Now play your instrument and use the active Pickup's LOW CUT filter and EQ sliders to adjust for the desired timbre. Now turn this Pickup's LEVEL control off and repeat the procedure for the other pickup.

When through, adjust both LEVEL controls for optimum loudness balance and use the PAN sliders to create a panoramic sound field between the A and B Outputs. If the sound seems thin or lacks bass when both Pickups are turned up, try using one or the other of the INVERT pushbuttons. This problem often occurs when pickups are out-of-phase and their outputs are canceling instead of combining. EFFECTS LOOPS Most often the SEND/RETURN loop is used for a reverb, while something more specialized like a compressor or multieffects processor fills the INSERT loop. Hookup is simple: connect the SENDS to the inputs of the reverb and run the outputs back to the RETURN jacks.

To send mono and return stereo, connect only the SEND A (MONO) jack to the input and return both outputs to the RETURN jacks; or to send and receive mono use just the A (MONO) SEND and RETURN jacks. The SP 13 splits and sums the mono input equally with the A and B Outputs. Adjust the SEND & RETURN sliders as necessary for correct levels. The INSERT loops are the single 1/4" send/return type where tip=send and ring=return. Use standard stereo (2conductor) cable with a stereo jack on one end, then split it out into two mono (1-conductor) cables with mono jacks on the other. These are common enough, you shouldn't have to make them. There are no controls to worry about with this loop. SEND/RETURN vs. INSERT An effect unit will deliver a full "wet" signal when patched into the INSERT. @@@@@@Mono signal applied to the A (MONO) EXPAND IN jack sums equally into Main A and B Outputs.

MAIN OUTPUTS Two sets of Main Outputs exist. Both are fully balanced, both may be used at the same time.



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The 1/4" TRS jack operates at line-level and should be used to drive additional signal processing, your power amplifier, or any line-level inputs. The XLR connectors are intended for mic-level inputs on mixers, tape recorders or a snake. This level is 40 dB less than the line-level outputs. It is, in effect, a built-in attenuator. ©Rane Corporation 10802 47th Ave. W., Mukilteo WA 98275-5098 TEL (425)355-6000 FAX (425)347-7757 WEB <http://www.rane.com> Manual-4 104764.



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