

TO MIXER: LINE-IN -OR-

TO MIXER: TAPE-IN

FROM RECORDER: PLAY-OUT

TO RECORDER: RECORD-IN

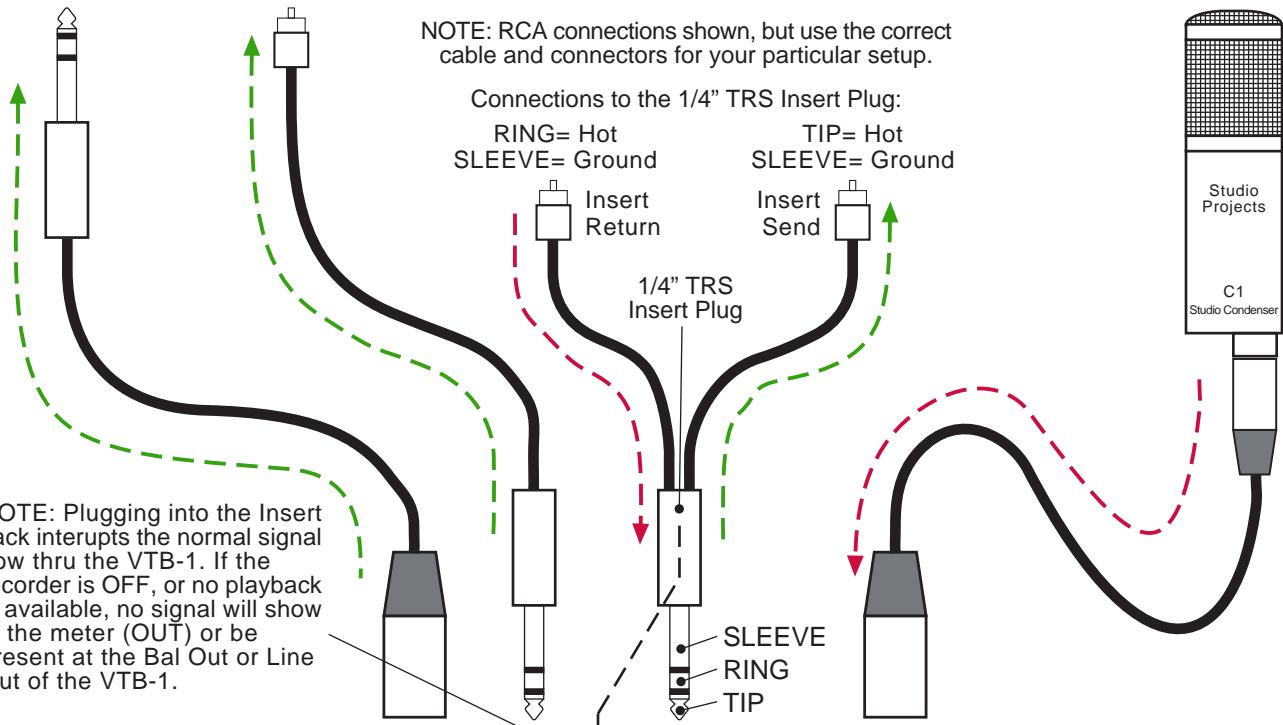
STUDIO PROJECTS (OR OTHER HI-QUALITY) MICROPHONE

NOTE: RCA connections shown, but use the correct cable and connectors for your particular setup.

Connections to the 1/4" TRS Insert Plug:

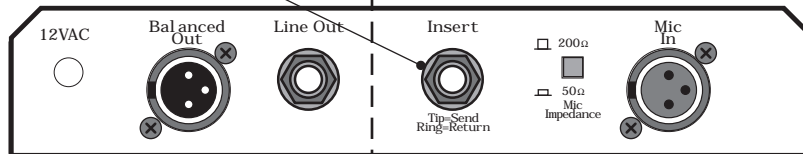
RING= Hot
SLEEVE= Ground

TIP= Hot
SLEEVE= Ground

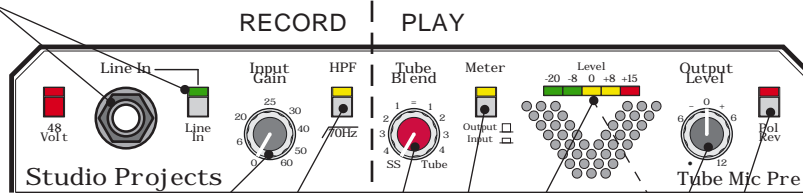


NOTE: Plugging into the Insert Jack interrupts the normal signal flow thru the VTB-1. If the recorder is OFF, or no playback is available, no signal will show in the meter (OUT) or be present at the Bal Out or Line Out of the VTB-1.

NOTE: Microphone input shown, but this setup works the same way for Line-In signals. Use the front-panel jack and switch to bring instruments into the VTB-1.



VTB-1 REAR CONNECTIONS



VTB-1 FRONT CONTROLS

INPUT GAIN: SETS THE LEVEL OF SIGNAL FEEDING THE RECORDER

HI-PASS FILTER: AFFECTS SIGNAL GOING TO THE RECORDER

TUBE-BLEND: ONLY AFFECTS THE SIGNAL RETURNING FROM THE RECORDER

METER SELECT: LETS YOU VIEW THE SIGNAL GOING TO THE RECORDER (IN), OR FEEDING THE MIXER (OUT)

OUTPUT LEVEL: SETS THE AMOUNT OF RETURNED SIGNAL FEEDING THE MIXER

POLARITY REVERSE: INVERTS THE POLARITY (PHASE) OF THE SIGNAL FEEDING THE MIXER

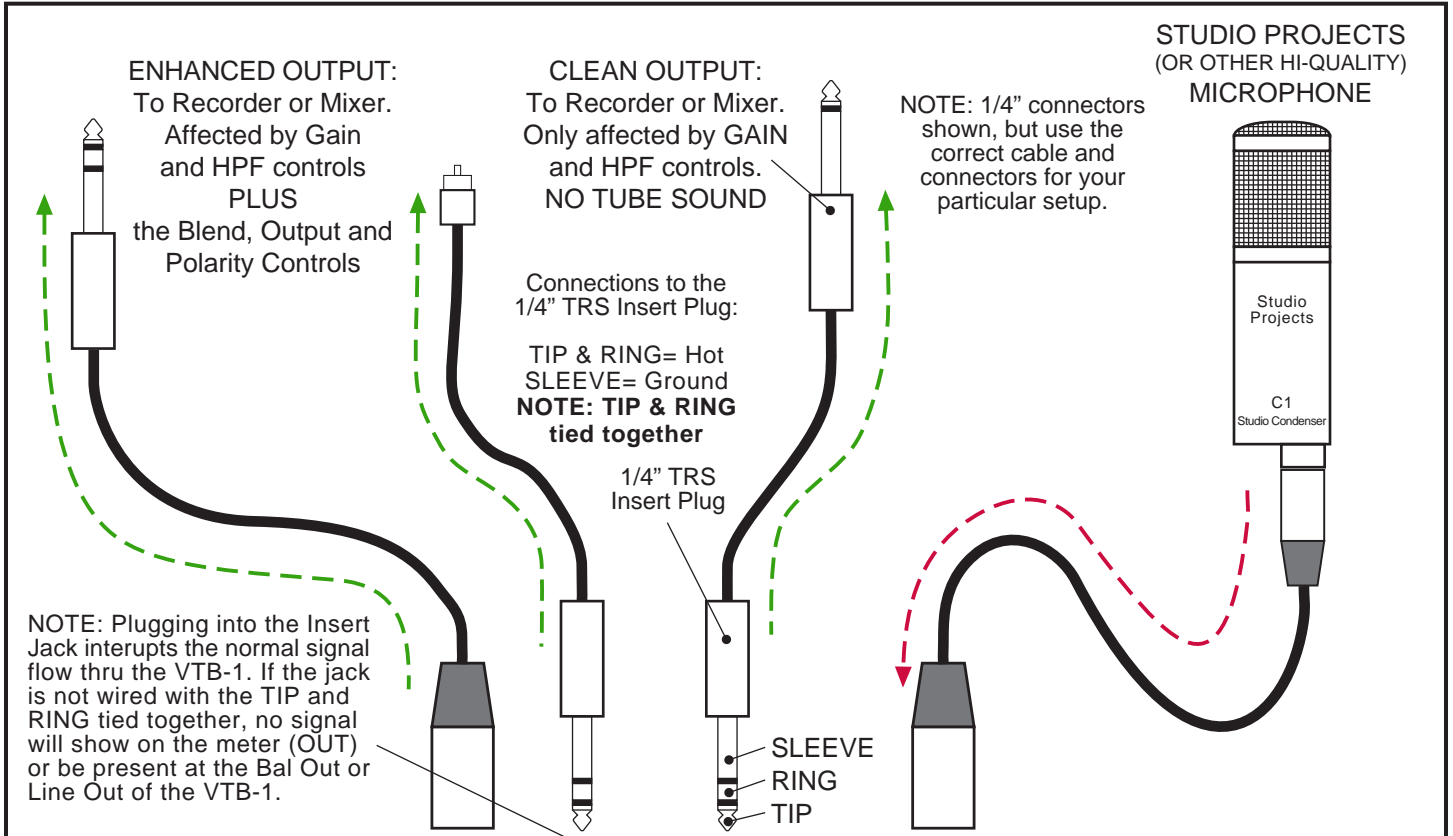
NOTE: The VTB-1 meter is calibrated for Pro level operation (+4dBu). The meter may stay in its lower ranges when driving semi-pro gear (-10dBV levels). If your equipment has a level-select switch, set it for +4 operation for best results and quietest operation.

Because of its specially designed signal path, the VTB-1 can be used to both feed and monitor a recorded track using its Insert Jack. The insert point is after the HPF, but directly before the Blend Control. The signal feed from the insert jack is before any tube circuitry, so the recorded signal will always be a SS only signal. The Playback output from the Recorder uses the return path of the insert jack which directly feeds the Tube Blend control and then the Output Level pot. By using the Blend control, the user can add the desired amount of Tube Sound at the final mix stage instead of when tracking. This allows for more variety during mixdown and contributes to less finger-pointing when it's decided that the sound you originally recorded is not really what you want now.

STUDIO PROJECTS

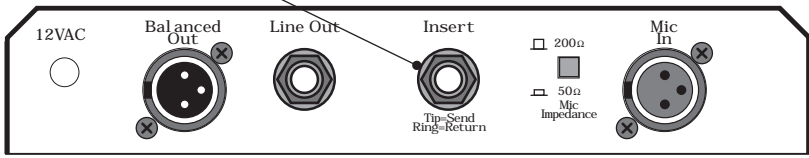
VTB-1 HOOKUP DIAGRAM
Using the VTB-1 for feeding and monitoring a recorded track

Using the VTB-1 for clean recording, with the option of adding "Tube Sound" to the track during mixdown.

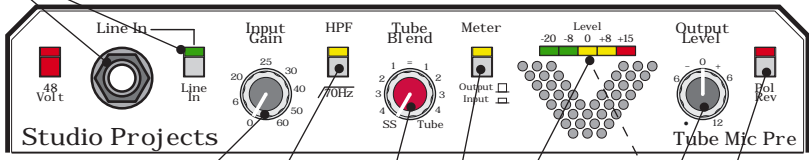


NOTE: Plugging into the Insert Jack interrupts the normal signal flow thru the VTB-1. If the jack is not wired with the TIP and RING tied together, no signal will show on the meter (OUT) or be present at the Bal Out or Line Out of the VTB-1.

NOTE: Microphone input shown, but this setup works the same way for Line-In signals. Use the front-panel jack and switch to bring instruments into the VTB-1.



VTB-1 REAR CONNECTIONS



VTB-1 FRONT CONTROLS

INPUT GAIN: CONTROLS THE LEVEL OF BOTH OUTPUTS

HI-PASS FILTER: AFFECTS SIGNAL GOING TO BOTH OUTPUTS

TUBE-BLEND: ONLY AFFECTS THE ENHANCED OUTPUT. USE IT TO ADD TUBE COLORING TO THE ENHANCED OUTPUT

METER SELECT: LETS YOU VIEW EITHER OF THE SIGNALS. CLEAN (IN), OR ENHANCED (OUT)

OUTPUT: SETS THE LEVEL OF THE ENHANCED OUTPUT ONLY

POLARITY REVERSE: INVERTS THE POLARITY (PHASE) OF THE ENHANCED OUTPUTS ONLY

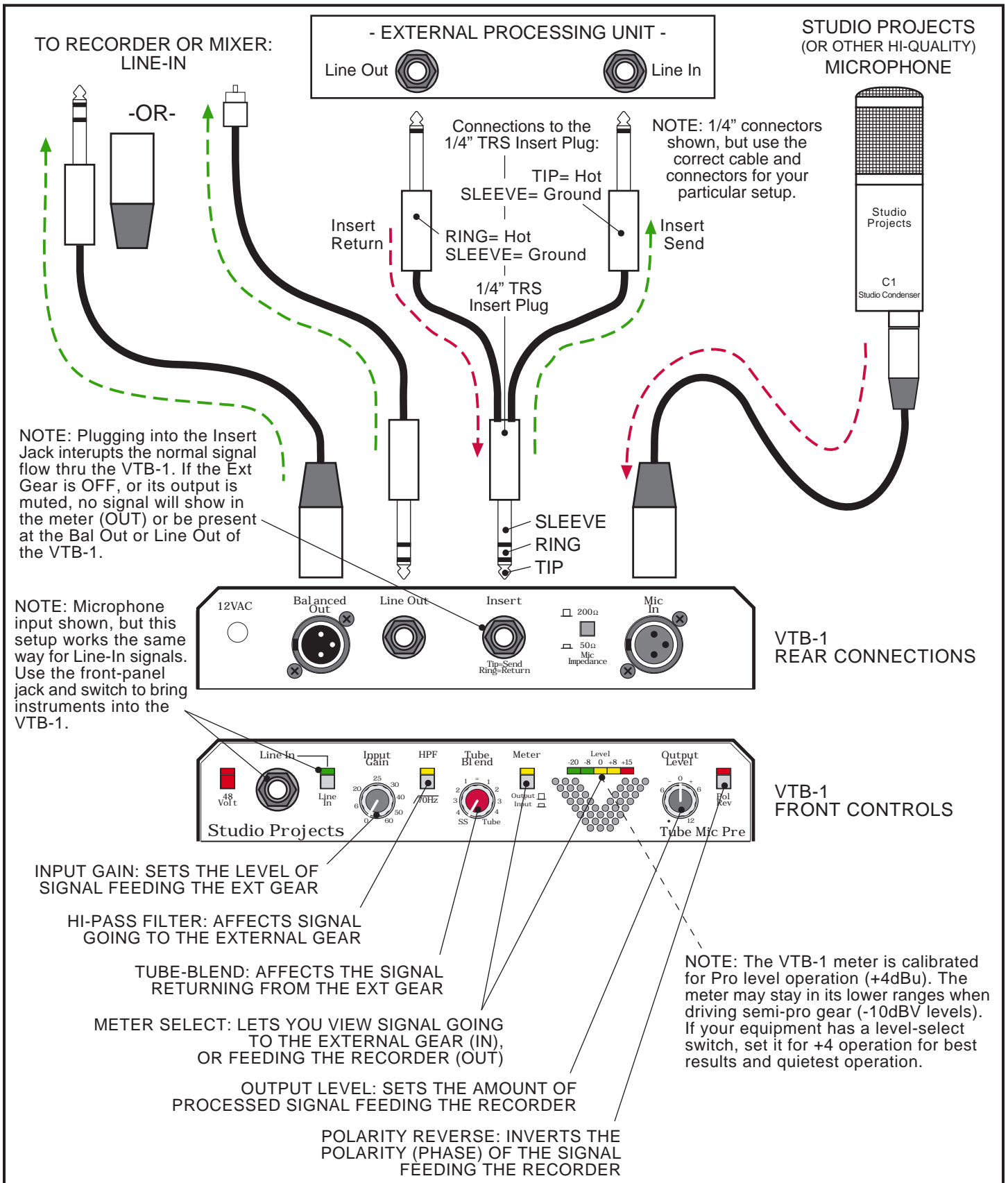
NOTE: The VTB-1 meter is calibrated for Pro level operation (+4dBu). The meter may stay in its lower ranges when driving semi-pro gear (-10dBV levels). If your equipment has a level-select switch, set it for +4 operation for best results and quietest operation.

Because of its specially designed signal path, the VTB-1 can be used to generate two distinct outputs by using its Insert Jack as an additional output. The insert point is after the HPF, but directly before the Blend Control. The signal feed from the insert jack is before any tube circuitry, so the additional output will always be a SS only signal. The insert cable needs to be wired as a "Borrow Cable" by tying the Tip and Ring connections together. This allows the insert signal to feed the outside world but still continue through the VTB-1 in its normal way. By using the Blend control, the user can add the desired amount of Tube Sound to the main (Enhanced) outputs while still having a clean, all solid-state output also available.

STUDIO PROJECTS

VTB-1 HOOKUP DIAGRAM
Using the VTB-1 for generating two different sounding feeds.

Using the VTB-1's Insert jack, a clean (all SS) signal, as well as a Tube Sound signal, can be simultaneously generated.



NOTE: Plugging into the Insert Jack interrupts the normal signal flow thru the VTB-1. If the Ext Gear is OFF, or its output is muted, no signal will show in the meter (OUT) or be present at the Bal Out or Line Out of the VTB-1.

NOTE: Microphone input shown, but this setup works the same way for Line-In signals. Use the front-panel jack and switch to bring instruments into the VTB-1.

NOTE: 1/4" connectors shown, but use the correct cable and connectors for your particular setup.

INPUT GAIN: SETS THE LEVEL OF SIGNAL FEEDING THE EXT GEAR

HI-PASS FILTER: AFFECTS SIGNAL GOING TO THE EXTERNAL GEAR

TUBE-BLEND: AFFECTS THE SIGNAL RETURNING FROM THE EXT GEAR

METER SELECT: LETS YOU VIEW SIGNAL GOING TO THE EXTERNAL GEAR (IN), OR FEEDING THE RECORDER (OUT)

OUTPUT LEVEL: SETS THE AMOUNT OF PROCESSED SIGNAL FEEDING THE RECORDER

POLARITY REVERSE: INVERTS THE POLARITY (PHASE) OF THE SIGNAL FEEDING THE RECORDER

NOTE: The VTB-1 meter is calibrated for Pro level operation (+4dBu). The meter may stay in its lower ranges when driving semi-pro gear (-10dBV levels). If your equipment has a level-select switch, set it for +4 operation for best results and quietest operation.

Often, when recording, additional control is desired when tracking a signal. Most external processing gear is designed for line-level operation and will not operate properly if fed directly from a microphone-level input signal. The VTB-1 provides an Insert Jack at line-level strength to properly interface to most gear. The Insert send-point is directly after the SS preamp and Hi-Pass filter sections, the return-point feeds the Tube Blend control. The Insert Jack is a 1/4" TRS jack and is wired as Tip= Insert-send, Ring= Insert-return, Sleeve= Ground. The nominal operating level at this point is approx 0dBu. When a compressor is being used, use the Meter (IN) to monitor the internal level and use the Gain control to set the SS preamp to a conservative level (keep levels below 0 on the meter). This leaves more headroom in the first, critical stage. Then use the controls of the external compressor to keep the dynamics within the desired range.

STUDIO PROJECTS

VTB-1 HOOKUP DIAGRAM
Using external processing gear with the VTB-1

Add an equalizer, compressor or other equipment to the signal path before recording.