

833 Studio Reference Monitor

Operating Instructions



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833 Studio Reference Monitor

Operating Instructions

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Operating Instructions

These Operating Instructions are intended to provide the professional engineer and studio technician with the information necessary to install and realize the full potential of the Meyer Sound 833 Studio Reference monitor.

Before installation, we urge you to read these Operating Instructions and familiarize yourself with the capabilities and requirements of the system. Should questions arise during installation or operation of your 833 System, please contact your dealer or Meyer Sound.

Operating Instructions

About This Manual

This manual has been designed to provide you with all the information necessary to install, connect and operate your Meyer Sound 833 Studio Reference Monitor.

We recommend that you study this manual thoroughly before connecting and operating your new 833, in order to take full advantage of its unique capabilities.

Thank you for selecting the Meyer Sound 833 Studio Reference Monitor.

System Description

The 833 Studio Reference Monitor is designed to provide the recording industry with a highly accurate reference loudspeaker system capable of reproducing an extremely wide dynamic range with exceptionally low noise and distortion figures. The system consists of two S833 Loudspeakers and the active, stereo C833 Control Electronics Unit.

The S833 is a vented enclosure housing a single 15" low frequency driver and a 1.4" throat high frequency driver mounted on a 40 degree by 80 degree modified radial horn.

The C833 Control Electronics Unit is a rack-mountable unit (19"W x 1 3/4"H) and incorporates phase and frequency response alignment circuitry, Meyer exclusive SpeakerSense™ driver protection circuitry, a user-adjustable tracking peak limiter, and two 20-segment LED bar displays (one per channel) calibrated to indicate average amplifier power. The 833 System requires a high-quality professional power amplifier capable of delivering between 50 and 400 watts continuously per channel into 8 ohms.

Optimized in all respects to be neutral, the 833 System provides an accurate sonic reflection of the input signal. The 833 System is extremely well damped, with no spurious harmonics or artificial resonances to introduce false coloration, and its time response is among the best in the industry. The system incorporates no "enhancement" circuitry or devices of any kind, but simply the minimum of transfer alignment circuitry necessary to achieve accurate response. As such, the 833 Studio Reference Monitor is a powerful tool for recording and mastering applications, and opens to the industry a new level of product consistency and quality.

Features

Significant features of the 833 System include:

- Integrated system design for greatest control of overall performance
- 100% factory testing and calibration for maximum consistency and reliability
- Extremely low distortion and wide dynamic range
- Driver protection through continuous monitoring of average amplifier power
- User-adjustable tracking peak limiter to prevent amplifier clipping.

Cautions

- For safe system operation SpeakerSense™ connections must be made as described in these Operating Instructions. **S833 Loudspeaker Connections must be made through the C833 Control Electronics Unit.**
- If the 833 System is operated with the C833 bar-graph display LEDs registering 250 watts or higher for more than 30 minutes, the system may be in danger. For each 30 minutes above the 250 watts marker, allow 30 minutes for the system to cool.
- Before attempting to set up and operate your system, be sure that the line voltage selector switch of the C833 is set correctly. Incorrect setting of this switch may damage the C833.
- **Do not** attempt to operate the S833 loudspeakers without the C833.

- **Do not** cut the earth ground pin from the line cord or use a ground-lifting plug. To float the Control Electronics Unit signal ground from earth, set the "Common" switch located on the rear panel to the Lift position. Pin 1 is always at signal ground, regardless of the position of the "Common" switch.

- **Do not** attempt repair of the 833 System loudspeaker components or replace them with any components other than Meyer Sound approved replacements. Meyer Sound will replace any failed component under the terms of the warranty.

Unpacking

The Meyer Sound 833 Monitor System is delivered in three packages: each loudspeaker cabinet is shipped in its own corrugated cardboard shipper, and the Control Electronics Unit is shipped in a separate container. **Save all packing material.**

All components should be carefully removed from their containers and immediately inspected for physical damage. If anything has been damaged in shipment, you must place a claim with the carrier: Meyer Sound and its dealers are not responsible for shipping damage.

Take care when handling the 833 loudspeaker cabinets: the finished surface can be scratched or marred by sharp tools or abrasive surfaces.

Your shipment should consist of:

- (2) S833 Studio Reference Monitor Loudspeakers
- (2) Loudspeaker grills (packed with S833s)
- (1) C833 Control Electronics Unit
- (1) Power cord (packed with C833)
- (1) Envelope (packed with C833) containing:
 - Operating Instructions
 - Warranty Statement
 - Warranty reply card.

Please fill out the Warranty Reply Card and return it immediately for our records.

Choosing a Power Amplifier

The differences among power amplifiers are significant and worth considering when choosing a unit to power your 833 Monitor System. You will find these differences to be quite audible, and we strongly suggest aural comparison testing of any power amplifiers under consideration. A Meyer Sound Technical Note, "Choosing a Power Amplifier", is available from your dealer.

The minimum AC impedance of the S833 is 8 ohms, and the maximum is in excess of 25 ohms. Therefore, any power amplifier used with this system should have a solid, stable power supply. For example, an amplifier rated at 250 watts should put out 45 volts RMS minimum across an 8 ohm load, and its output should not change more than 1 volt when the load is removed. If the output voltage is significantly load-dependent, then the power supply is too soft for good sonic quality; when significant low frequency information is reproduced the greater current demand of the lows will cause the highs to drop in level.

Many hi-fi amplifiers use very soft supplies, and will not be suitable for use with the 833 System.

If you decide to augment your 833 System with the 834 Studio Subwoofers (which add power at low frequencies, but do not substantially alter the system's frequency response), you should consider choosing an amplifier capable of driving 4 ohms with no significant change in output voltage. You may find, for example, that an amplifier capable of 58 volts across 8 ohms will only produce 40 volts across 4 ohms. Such an amplifier will probably be using VI limiting for current protection; this amplifier will provide very little power increase with the subwoofer system. Moreover, the amplifier will be very likely to go into current protection on peaks ("current clipping"). As the 833 is not a bi-amplified system, this waveform distortion will be quite audible.

Warning: If the power amplifier produces any DC, the S833 will present a shorted load. Many power amplifiers will self-destruct under these circumstances.

S833 Loudspeaker Placement

The 833 Studio Reference Monitor is, like all loudspeakers, affected by its acoustic environment. The 833 System measures within ± 3 dB from 35 to 18,000 Hz under conditions of true half-space loading (on its back on a flat surface, outdoors), and each stereo pair is matched to within ± 1 dB. Accordingly, the ideal placement is with the cabinet back flush against a wall, a minimum of two feet from any corner. The S833 is provided with four 3/8"-16 threaded plates on the rear face of the cabinet for wall-mounting, any one of which is capable of supporting the entire cabinet safely.

If the cabinet is recessed, the front face should stand a minimum of two inches clear of the wall surface. If the cabinet must be placed in or near a corner, or if it is mounted with the front face flush with the wall, equalization may be required to preserve flat frequency response. The preferred choice of equalizer is the Meyer Sound CP-10 Complementary Phase

Parametric Equalizer, a ten-band, two-channel equalizer featuring exceptionally low noise figures and complementary phase circuitry.

For best results the room resonances must be accurately identified, both in the frequency and phase domains. They can then be eliminated by the introduction of complementary phase anti-resonant filters in the signal path. When performed correctly this technique can eliminate the effects of all resonances and early reflections of up to 40 msec., making it possible to completely remove the unwanted contribution of the "room-sound" to the listening experience. For further information on this technique and its implementation please contact your dealer or Meyer Sound.

C833 Control Electronics Unit Placement

The C833 should be rack-mounted together with the power amplifier, and the two should share the same AC service. They may be placed wherever it is most convenient for studio installation. It may be useful, however, to place the C833 so that its front panel display is visible to the engineer. An engineer familiar with the operational characteristics of the system may find the C833 display to be of use, particularly in mixdown.

Connections

The procedure recommended for connecting your 833 Studio Reference Monitor System is as follows:

- Connect C833 outputs to the power amplifier
- Connect power amplifier outputs to the "Amp" C833 inputs terminals on the S833 loudspeakers to the "Spkr" terminals on the C833
- Connect S833 loudspeakers to the "Spkr" terminals on the C833
- Connect monitor feed to C833 inputs
- Calibrate power amplifier sensitivity
- Optionally, set peak Limiter as desired.

The specific information necessary to perform these steps is given in this section.

Connecting the C833 to the Amplifier

The C833 Control Electronics Unit is designed to be the final system component before the power amplifier, and serves as the signal input to the monitor system. The C833 outputs are active balanced (push-pull), and XLR connector pin assignments are as follows:

Pin 1 = common
Pin 2 = signal -
Pin 3 = signal +

The C833 "A" and "B" outputs are to be connected to the left and right inputs, respectively, of the power amplifier. If the power amplifier inputs are balanced, standard mic cables may be used.

If the power amplifier inputs are unbalanced, wire the C833 signal output cable as follows:

Pin 1 = ground
Pin 2 = **unconnected**
Pin 3 = hot

Do not connect Pin 1 to the XLR case terminal, either at the amplifier input or at the C833 signal output.

SpeakerSense™ Connections

Located on the rear panel of the C833 is an 8-position barrier strip. The power amplifier outputs are to be connected to the "Amp" terminals of this strip.

Observe the indicated connection polarity and channel assignments when making these connections.

Note that the amplifier output signal is routed through the C833 to the S833 loudspeakers. This connection enables the C833 to continuously monitor the average power being dissipated by the loudspeaker components. When the safe operating limits of the components are exceeded, RMS limiters in the C833 act to hold down the amplifier input level. Additionally, the C833 incorporates a user-settable peak limiter (see page 12) which acts in response to the voltage sensed at the power amplifier output.

The red LEDs marked, "Limit" on the C833 front panel indicate activation of either the RMS or the peak limiters in either of the stereo channels.

You must connect the system as described here in order to assure safe operation at high levels. Failure to make the SpeakerSense connection will invalidate the warranty on the 833 System.

S833 Loudspeaker Connections

Connections between the S833 loudspeakers and the power amplifier are made at the "Spkr" connections on the terminal strip on the C833 Control Electronics Unit. In making connections to the S833 loudspeakers use 14 gauge wire or larger, and 12 gauge or larger for runs of 100 feet or more or when the 834 subwoofer is in use. Be sure to tighten the connectors so that the speaker wire is securely held in contact with the terminal. Take care to observe correct polarity in making these connections.

Connecting the System Input

The inputs of the C833 are active balanced, standard XLR-type connectors. Pin assignments for these connectors are:

Pin 1 = ground
Pin 2 = signal –
Pin 3 = signal +

If the console monitor output is balanced, standard mic cables may be used to connect to the C833. If the output is unbalanced, wire the C833 input connector as follows:

Pin 1 = ground
Pin 2 = connect to pin 1
Pin 3 = hot

Once the console monitor feed is connected, the 833 Monitor System is ready to operate. However, before playing music through the system, it is absolutely imperative that the amplifier sensitivity be calibrated and that the SpeakerSense connections be verified.

Amplifier Sensitivity Calibration and System Verification

This calibration procedure balances the power amplifier channels, and also provides verification that all connections are correct and all components are functional. The procedure sets the amplifier sensitivity at 20dB gain for a balanced input or 28dB gain for a single-ended input. If the amplifier inputs are changed from balanced to unbalanced, or vice versa, the calibration procedure must be repeated.

In order to perform this calibration you will need:

A low impedance
sinewave oscillator
An RMS-reading voltmeter
An SPL meter (optional)

- All connections should be made to the C833, the S833 loudspeakers and the power amplifier as previously described.

- Set the C833 and power amplifier input levels to minimum.

- Connect and turn on AC for the C833 and the power amplifier.

- Set the oscillator frequency to 1kHz, and the output level to 0.1vRMS

- Connect the sinewave oscillator output to the C833 "A" input pins 1 (ground) and 3 (hot), tie pin 2 to pin 1, and advance the C833 "A" input level control to maximum

- Connect the RMS-reading voltmeter to the "A"(left) channel output of the power amplifier

- Advance the corresponding level control of the power amplifier slowly until the voltmeter reads 6.6vRMS. The S833 loudspeaker will produce the 1kHz tone at 102dB SPL, measured at one meter. (The SPL may vary \pm 2dB due to room acoustics.)

Note: If detents on the power amplifier input prevent accurate calibration, use the LEDs on the bar-graph display of the C833 as a guide – the 1 and 5 watt LEDs should light, but not the 10 watt. If the power amplifier does not have gain controls for each channel, pads must be attached to its inputs.

- Repeat the procedure with the "B" channel, and **lock out the power amplifier level controls, if possible.**

The power amplifier gain is now calibrated for use with the 833 System. Meyer Sound recommends 20dB of gain for a balanced amplifier, as described above, but a 15dB to 25dB range is acceptable. If the normal operating level of the system is found to be too loud, use the Input controls of the C833 to set a satisfactory level.

Optional Calibration Procedure

This procedure calibrates the system so that the C833 and the amplifier reach their signal clip points together. This assures best signal-to-noise ratio, and optimum limiter function. If you wish to set the system in this way, you will need:

A low impedance
sinewave oscillator
An oscilloscope

- Disconnect the SpeakerSense connections at either the power amplifier or at the C833 terminal strip. This will temporarily disable the SpeakerSense driver protection circuitry and will also disconnect the S833 loudspeakers from the amplifier. Do not attempt this procedure with SpeakerSense connections in place.

- Set the C833 input controls at maximum, the power amplifier input controls at minimum, and turn on AC to both units.

- Set the oscillator frequency at 1KHz, the output voltage at just under 2 volts RMS and connect its output to the C833 "A" input.

- Advance the oscillator level control until the C833 "A" Clip indicator just lights. (The Clip indicator is the 20th segment of the LED display - since the SpeakerSense circuitry is inoperative, the green LEDs will not light.)

- Advance the power amplifier "A" or left channel level control until the power amplifier just clips (verify this with the oscilloscope, as front panel LEDs on many amplifiers are not reliable indicators of actual clipping).

- Repeat the procedure with the "B" channel.

After completing calibrations, set the C833 level controls to minimum, disconnect the sinewave oscillator, and turn off the power amplifier and C833. When reconnecting the SpeakerSense connections (and hence the S833 loudspeakers) take care that polarity is correct.

LED Bar-graph Display

The C833 incorporates, for each channel, a 20-segment LED bar-graph display calibrated in watts, with the 20th segment indicating clipping of the C833 output. The displays are driven from the SpeakerSense connection, and indicate the average power being applied to the S833 loudspeakers.

If the display does not light when the system is operating at high levels, check that the amplifier outputs have been connected to the C833 as described in "SpeakerSense Connections," on Page 8.

When the 834 subwoofer system is in use, the display will show the average power being applied to each loudspeaker. For instance, if the display shows 250 watts, then both the S833 and the 834 subwoofer are being driven with 250 watts of amplifier power, whether they are driven by the same amplifier or separate matched amplifiers.

In addition to the bar-graph display, two red LEDs are provided to indicate signal limiting. The RMS limiters are factory-set to function as protection for the system and are not user-adjustable.

Verifying Polarity

If:

the + (red) terminal of the S833 is connected to the corresponding speaker + terminal of the C833,

and

the input and output connections to the C833 are made as described in these Operating Instructions,

and

the power amplifier used with your 833 Monitor System is net non-inverting and connected correctly to the C833,

Then:

a positive impulse into the C833 (Input pin 3) will produce a compression front (positive acoustical impulse) from the S833 loudspeaker.

Setting the Peak Limiter

In addition to the RMS speaker-protection limiter, the 833 System incorporates a fast-acting stereo-tracking peak limiter. This limiter may be used to prevent amplifier clipping on program peaks, thus avoiding amplifier-generated distortion. In near-field monitoring applications, you may wish to set this limiter far below the power amplifier clipping point (at 100 watts, for example), to guard against hearing damage from transients caused by dropped microphones or the accidental flipping of switches.

The C833 is delivered with the peak limiter set for 250 watt (8 ohm rating) power amplifiers. If you are using an amplifier of this rating, you need not readjust the peak limiter setting unless you wish to limit the peak levels of the system further. If you are using an amplifier of a higher or lower power rating, you may wish to adjust the setting to accommodate your amplifier. It is not recommended that the limiter be set below about 100 watts, since below that level its action is relatively soft.

The threshold of the peak limiter is adjusted by turning the slotted trim shaft located at the right-hand end of the bar-graph display. To calibrate the limiter, press in on the shaft using a small screwdriver. The LEDs will display the approximate limiter threshold in watts. Simultaneously, the threshold of the peak limiter will be temporarily lowered. This will result in a significant drop in SPL if the 833 system is reproducing a signal, and indicates proper functioning of the limiter circuitry. The limiter threshold will be restored to the displayed value when the trim shaft is released, but the trim control is always active, whether the shaft is pushed in or not.

Note: The peak limiter operates independently of the C833 SpeakerSense driver protection circuitry, and its setting will not affect system reliability.

834 Studio Subwoofer

The 834 Studio Subwoofer System consists of a matched pair of vented cabinets each containing a single MS-18 cone loudspeaker and network. The system is designed to reproduce frequencies below 100Hz, thereby extending the power bandwidth of the Meyer Sound 833 Studio Reference Monitor System. The combined 833/834 Studio Reference Monitor System is capable of output levels exceeding 130dB SPL while maintaining a frequency response of 30Hz to 18kHz.

The 833 Studio Reference Monitor System exhibits extreme linearity, excellent imaging and low distortion. The addition of the 834 Studio Subwoofer preserves these essential features by extending the power bandwidth of the system and enhancing the system's ability to accurately reproduce signals containing significant low-frequency information at high SPLs.

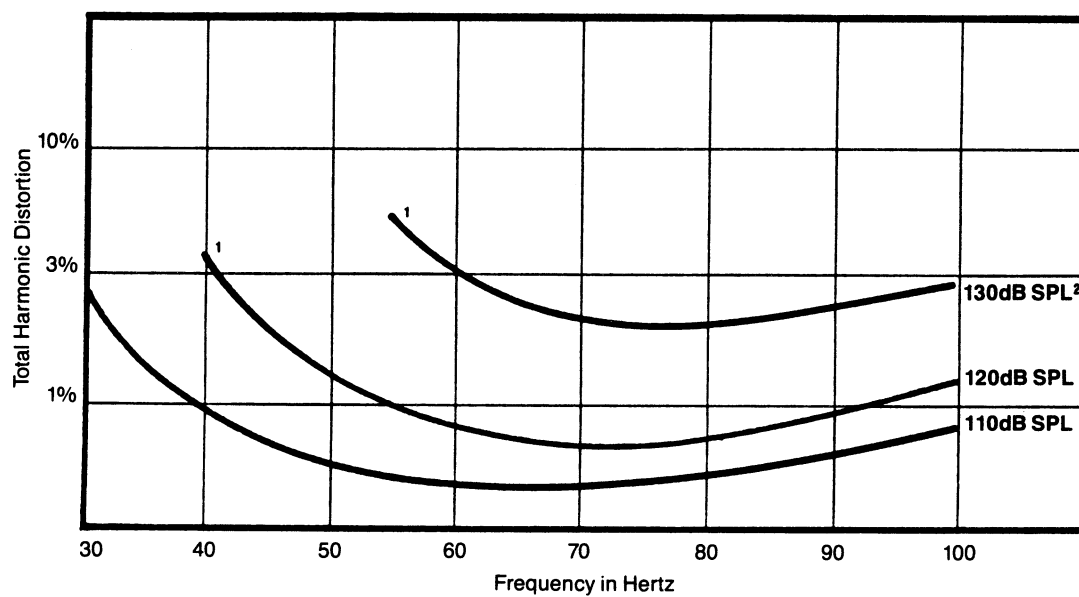
The 834 Studio Subwoofer System is recommended to users of the 833 Studio Reference Monitor System who require accurate reproduction at high listening levels in large rooms.

The C833 Control Electronics Unit supplied with the 833 System contains the necessary circuitry to compensate for the additional acoustic output realized when using the 834 Studio Subwoofer System. A rear panel switch on the C833 marked "Subwoofers" inserts a complementary phase and amplitude equalization circuit to compensate for the increased efficiency of the 834 subwoofers. Insertion of this circuit is indicated on the front panel of the C833 by a green LED marked "Sub."

The 834 subwoofers are each connected in parallel with their respective 833 Studio Reference Monitors, thus presenting a load of 4 ohms to the power amplifier. No additional amplification is necessary, provided the system amplifier is capable of driving a 4 ohm load.

If the system amplifier cannot safely drive a 4 ohm load, then an additional stereo amplifier (with identical gain) should be used for the 834 subwoofers. No additional control electronics are necessary in either configuration, as the C833 provides the necessary drive signal for both amplifiers. See pages 15 and 16 for Connection Diagrams.

Typical distortion figures for the 834 Studio Subwoofer at high SPLs



¹Low frequency response at high SPLs is controlled by the C833 Control Electronics Unit

²Amplifier capable of 300 watts into 8 ohms

All measurements made at 1 meter, one-quarter space conditions (wall/floor junction, outdoors).

Connecting the 834 Studio Subwoofer. Parallel Connection

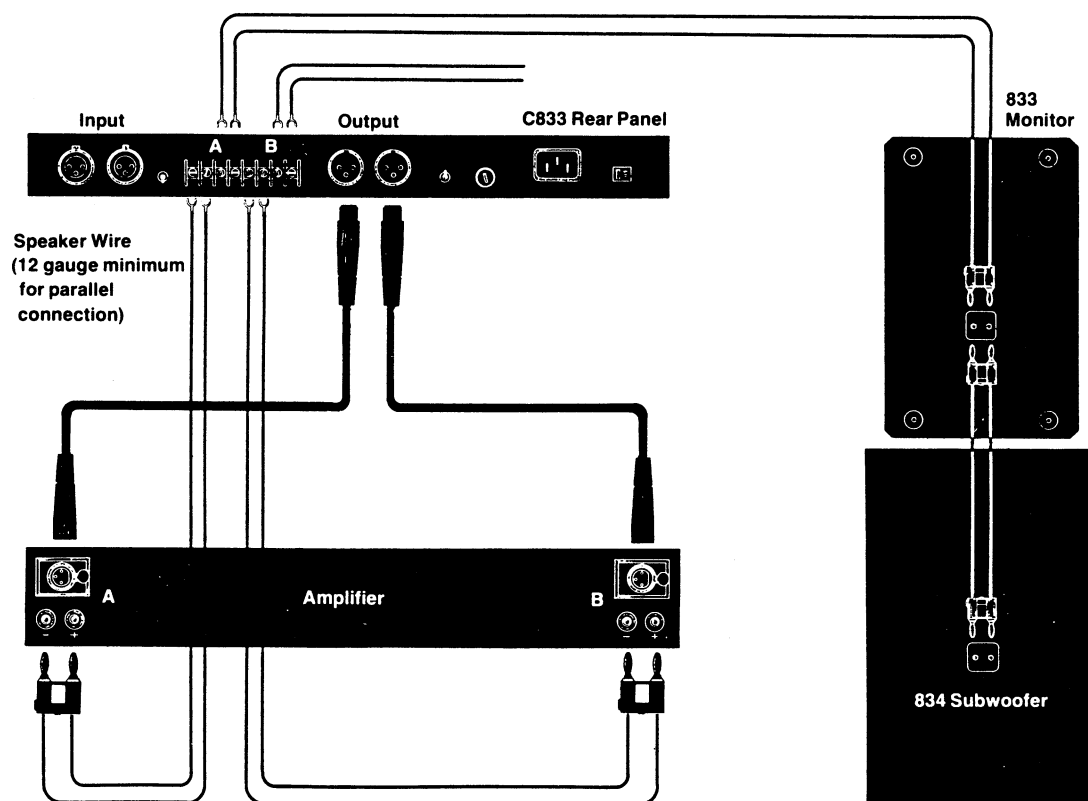


Diagram 2

Connecting the 834 Studio Subwoofer. Separate Amplifier

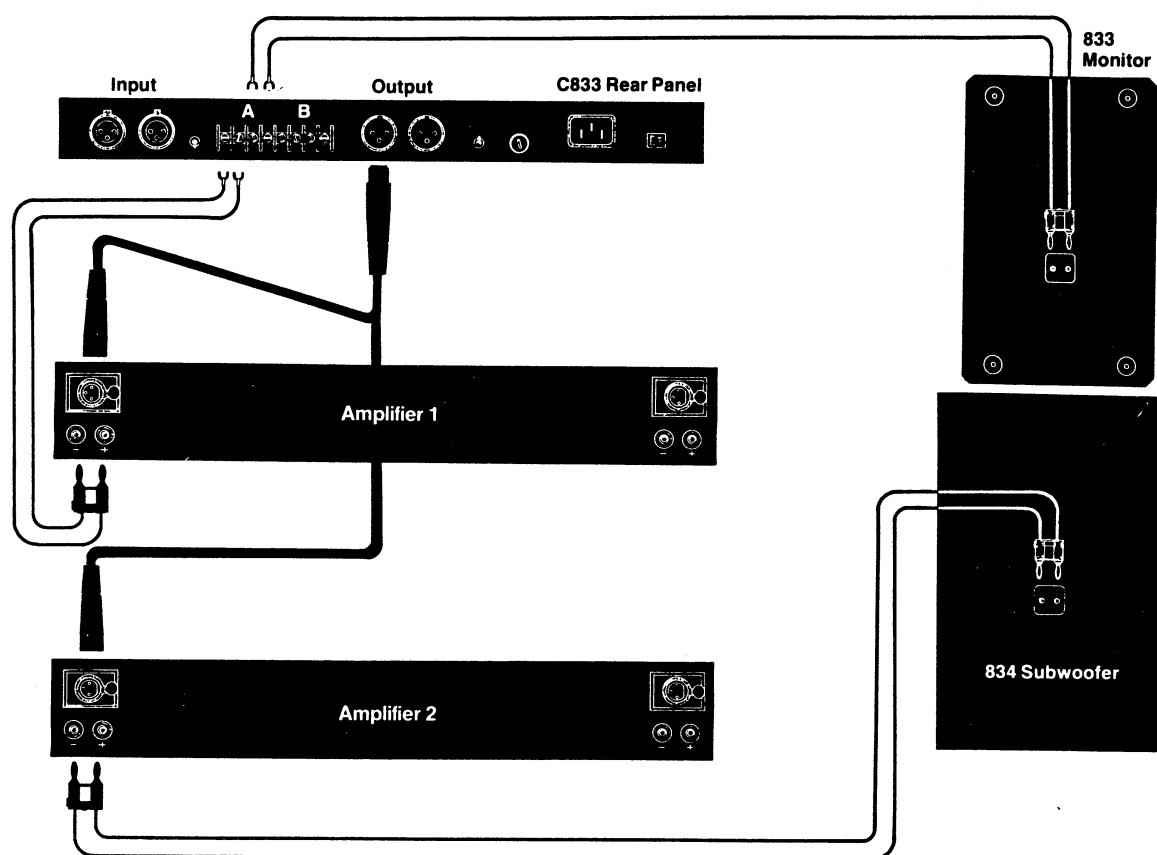


Diagram 3

833 Specifications

Acoustical — 833/C833 System

Acoustical Response ¹	35 Hz to 18 kHz ± 3 dB
Time Response	± 350 μ sec from 100 Hz to 20 kHz
	± 25 μ sec from 2 kHz to 20 kHz

Maximum SPL²

Continuous	120 dB
Peak	130 dB

HF Distribution Pattern³

Horizontal	80 degrees
Vertical	40 degrees

833 Loudspeaker

Driver Complement

Low Frequency	MS-15 (Gold grade)
High Frequency	MS-1401A (Gold grade)
High Frequency Horn	Modified radial with foam lens
Acoustical Crossover Frequency	700 Hz
Networks	XM-2 crossover, DC protection
Enclosure	4 cu. ft. vented, heavily braced MDF
Finish	Black satin or natural walnut
Physical Dimensions	20" W x 32" H x 14 3/4" D
Weight	93 lbs (42.2 kg)
Grill	Acoustically transparent material on removable frame
Connectors	Five-way deep binding posts
Mounting Hardware	Four 3/8" - 16 threaded blind nut plates 1" deep on cabinet back face, each capable of supporting entire cabinet alone

Notes:

1. Measured 1 meter on axis, half-space conditions, pink noise input, in third-octave bands.
2. "A" weighted noise input loudspeaker driven by 250 watt/channel (8 ohm rating) power amplifier.
3. -6 dB points ref.

Input type	Active balanced transformerless, 10k ohms
Output type	Active balanced transformerless, 600 ohm drive
Maximum Input/Output Level	
Balanced	+26 dBu
Unbalanced	+20 dBu
Hum and Noise	< -90 dBV "A" weighted
Dynamic Range	120 dB
Sense Inputs	10k ohms, true differential
Front Panel Indicators	
Power, Ready, Sub	Green LEDs
Amplifier Power	19-segment LED display, in watts continuous
Limiters (RMS and Peak)	Red LEDs
Clip	Red LEDs
Connectors	
Signal Inputs/Outputs	3-pin XLR male (outputs) and female (inputs)
Amplifier/Speakers	Barrier terminal strip
Power	120/240V AC, 50/60 Hz (internally switched)
Physical Dimensions	19" W x 1 3/4" H x 10 5/8" D steel chassis
Weight	8.5 lbs (3.85 kg)

Acoustical Response ¹	35 Hz – 18 kHz \pm 3 dB
Time Response	\pm 350 μ sec from 100 Hz to 20 kHz
	\pm 25 μ sec from 2 kHz to 20 kHz
Maximum SPL ²	
Continuous	120 dB
Peak	130 dB
HF Distribution Pattern ³	
Horizontal	80 degrees
Vertical	40 degrees

[illegible]

Acoustical — 833/834 Studio Reference Monitor System

Acoustical Response¹ 30 Hz – 18 kHz ± 4 dB

Time Response $\pm 350 \mu\text{sec}$ from 100 Hz to 20 kHz
..... $\pm 25 \mu\text{sec}$ from 2 kHz to 20 kHz

Maximum SPL²

Continuous 120 dB

Peak 130 dB

834 Loudspeaker

Driver Complement.....MS-18 (Gold grade)

Acoustical Crossover Frequency 100 Hz

Networks Low-pass filter, DC protection

Endlosure 8 cu. ft. vented, heavily braced MDF

Finish **Black satin lacquer**

Physical Dimensions24 1/8" W x 36" H x 20 " D

Weight 118 lbs (53.5 kg)

Grill Acoustically transparent material on removable frame

Connectors Five-way deep binding posts

Notes:

1. Measured 1 meter on axis, half-space conditions, pink noise input, in third-octave bands.
2. "A" weighted noise input loudspeaker driven by 250 watt/ channel (8 ohm rating) power amplifier.

Related Products

The following Meyer Sound products are ideal complements to the 833/834 Studio Reference Monitor System in professional applications:

HD-1 High Definition Recording Monitor

The HD-1 is a compact, high-definition loudspeaker system for "near-field" monitoring applications. It comprises a proprietary 8-inch cone low-frequency driver and dome high-frequency driver in a vented cabinet. An active crossover, frequency and phase response alignment circuitry, driver protection circuitry and dual power amplifiers are built into the enclosure. Frequency response is 32 Hz to 22 kHz. The HD-1 produces maximum SPL of 120 dB peak, with a signal-to-noise ratio in excess of 100 dB.

CP-10 Parametric Equalizer

The CP-10 is a ten-band stereo equalizer featuring five bands of fully parametric equalization per channel, with additional high and low shelving cut filters for each channel. Employing Meyer Sound's exclusive Complementary Phase parametric networks, the CP-10 is ideally suited for control room monitor tuning. Its extremely low distortion and natural sonic characteristics also make the CP-10 an effective outboard equalizer for both tracking and mixing.

VX-1 Stereo Program Equalizer

The VX-1 Stereo Program Equalizer is a two-channel signal processor that is optimized for composite frequency response shaping of stereo program material. Featuring a unique Virtual Cross implementation, the VX-1 provided five controls for the Low, Mid and High frequency bands. The crossover metaphor makes the VX-1 a simple but powerful tool for generating a wide variety of response shapes. Minimum-phase, first-order tracking networks impart an unusually graceful and natural equalization characteristic. The VX-1 Stereo Program Equalizer is suitable for a wide variety of equalization tasks, from drum overhead EQ and program equalization in mixdown to Compact Disc™ mastering.

Please see your Meyer Dealer for more information on these products.



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