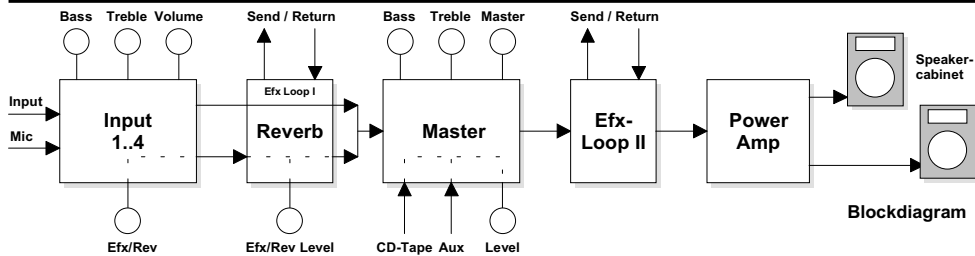


# PA-460R Technical Information



## Inputs 1 to 4:

Inputimpedance / Level: Input	100k $\Omega$ / 0dB
Inputimpedance: Mic	600 $\Omega$ symmetrical
Tonecontrol: Bass / Treble	50Hz +/- 16dB / 8kHz +/- 16dB
Inputimpedance / Level: Return I	25k $\Omega$ / 0dB
Outputimpedance / Level: Send I	1k $\Omega$ / 0dB
Inputimpedance / Level: Aux / CD / Tape	30k $\Omega$ / -10dB
Outputimpedance / Level: Send II	15k $\Omega$ / +10dB
Inputimpedance / Level: Return II	10k $\Omega$ / +10dB
Outputimpedance / Level: Output	1k $\Omega$ / +10dB
Tonecontrol: Bass / Treble	50Hz +/- 16dB / 4kHz +/- 16dB
Output Power (RMS/max. peak-peak)	60/120 Watt RMS on 8 $\Omega$
Frequency	+/- 3dB 32Hz-26.000Hz
Speakercabinet (RMS/max. peak-peak)	2 Way bass-reflex-system 60/80Watt/8 $\Omega$ with: HT-Horn, 10" Bass and stand-adaptor max. 160Watt
Consumption	120V/4A slow blow or 230V/2A slow blow
Fuse	



## CLEANING:

Wipe it clean with a lint free cloth. Never spray cleaning agents onto the cabinet. Avoid abrasive cleansers which would damage the finish.

## CAUTION:

- 1 Before using the PA-460R read this Owners' Manual thoroughly.
- 2 Do not open the unit! No user serviceable parts inside.
- 3 Refer servicing to qualified service personnel.
- 4 This amplifier is capable of producing high sound pressure levels. Continued exposure to high sound pressure levels can cause permanent hearing impairment or loss. Ear protection is recommended if this amplifier is operated at high volume.
- 5 Do not use in dusty, wet or extremely hot environments.
- 6 Contact qualified service personnel immediately if:
  - \* The housing is damaged and the unit does not work properly
  - \* Small items or liquids of any kind penetrate the unit
  - \* in the event of any other problem

Specifications and information in this manual are subject to change without notice!

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Designed in Germany - Made in Korea

**NOBELS**  
German Electronic Engineering

**Owners  
Manual**

# PA-460R



The „compact“ PA:

**4-Channel Power Mixer with internal Reverb**

**2x 2-Way Speakercabinets**

**2x Stands (Aluminium)**

**2x Speakercable**

**Powercord**

<http://www.nobels.com>

# NOBELS PA-460R 4 Channel Power Mixer

klr: 010725-05:37

Welcome to the NOBELS-Family!

It's that simple! Just connect, switch on, ready! For those who like to know more:

Here is the detailed manual:

## Input 1 to 4

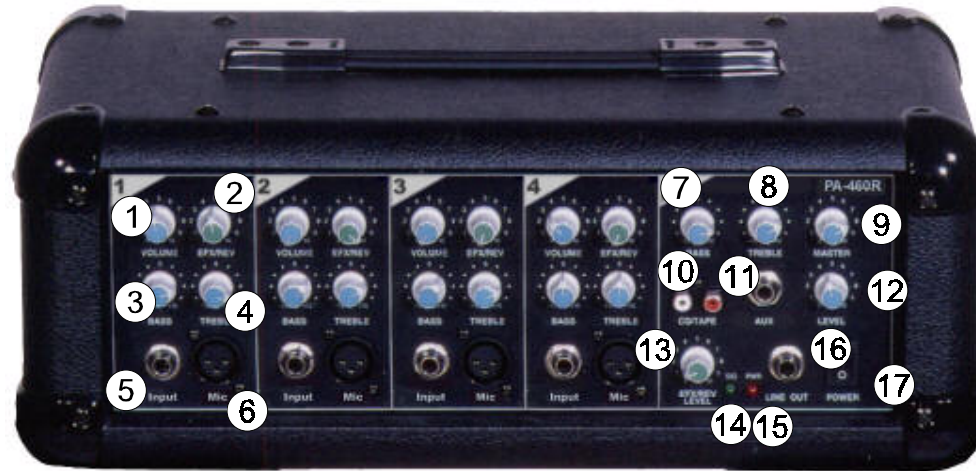
- (1) **Volume Control**  
Adjusts the volume of a channel.
- (2) **Efx/Rev Control**  
Adjusts the amount of reverb for a channel. If using an external Efx-device (e.g. digital reverb): Adjusts the amount of effects of the external device.
- (3) **Bass Control**  
Adjusts the low frequencies per channel.
- (4) **Treble Control**  
Adjusts the high frequencies per channel.
- (5) **Instr. Input**  
Standard jack (6,3mm / unsymmetrically) Connect to musical instruments.
- (6) **Mic Input**  
XLR-input (600Ω / symmetrically).

## Master (Output Section)

- (7) **Bass Control**  
Adjusts the overall amount of low frequencies.
- (8) **Treble Control**  
Adjusts the overall amount of high frequencies.
- (9) **Master Control**  
Adjusts the overall amount of volume.
- (10) **CD-Tape Input**  
To connect a CD-player or tape-deck. (2x cinch jacks)
- (11) **Aux Input**  
Input for other sources. (6,3mm Standard jack)
- (12) **Level Control**  
Adjusts the volume of the CD-Tape input or Aux input. You should use only one of the inputs at a time.

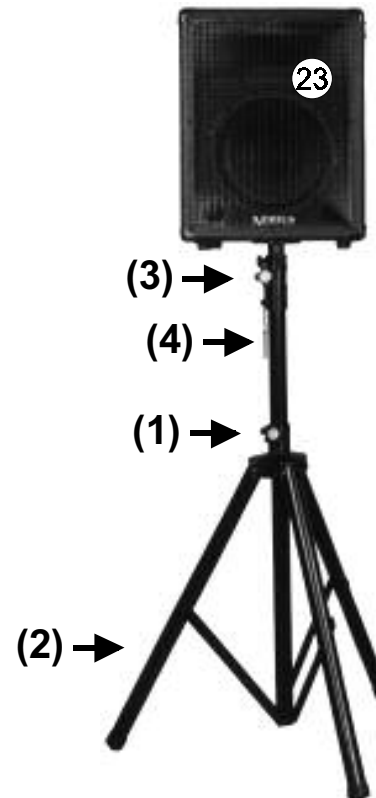
## Effect-Section

- (13) **Efx/Rev Control**  
Adjusts the return signal of the internal reverb. If using an external device, its return level will be controlled.



## Aufstellen und Inbetriebnahme

- 1 **Stands**  
Release the handscrew (1) and spreiz the 3 legs (2) until it covers an area of at least 1qm. Fasten the handscrew (1). Release the heightadjustment (3) and adjust it to a preferred height. It is important to save it with the safety-splint (4) sichern. Set the cabinets on the stands.  
Check for safety stand. Make sure the speaker cables are not a gefahr to stolper. If neccessary save it with tape. Please note: The Aufsteller haftet for all Sach- und Personenschäden, caused by unprofessional aufstanding!
- 2 **Mixer**  
Connect the power cord. Adjust the master volume to zero. Connect both speaker cabinets to the amplifier. Connect your instruments. Switch the units on. Adjusts the master volume to your desired level. Watch the clipping Led!



## (14) Clip Led (Green)

If the output is overloaded the led will light up. If the green led is blinking steadily, then reduce the master volume! This will prevent distorted sound and damages of the connected speaker cabinets

## (15) On Led (Red)

Lights up when switching the power on.

## (16) Line Out Output

External output to connect a secondary power amplifier or to connect to a tape-deck for recording.

## (17) Power Switch

Switches the PA-460R on or off.

## Backside (not shown)

### (18) Fuse 2A(T)

Fuseholder with 230V/2A Slow-blow fuse.

### (19) 230V AC 50/60Hz Powerjack

Power jack for included power cord. Before connect, check for correct voltages.

### (20) 2x Output Jacks

6,3mm output jacks to connect to the speaker cabinets. (speaker cables included)

### (21) Effect Loop 2

Parallel Efx loop for external effect devices. Especially for reverb or delay (Echo). Connect the input of the device to the send jack. Connect the output of the device to the return jack.

### (22) Effect Loop 1

Serial Efx loop between the input channels and the power amplifier. Best for compressor/limiter or graphic equalizer. Interrupts the signal way when plugged in. Connections like (21).

### (23) Speaker cabinets

Connect to the amplifier. An additional output jack can be connected to other speaker cabinets. (min. load 8Ohms)

We wish you fun and success!