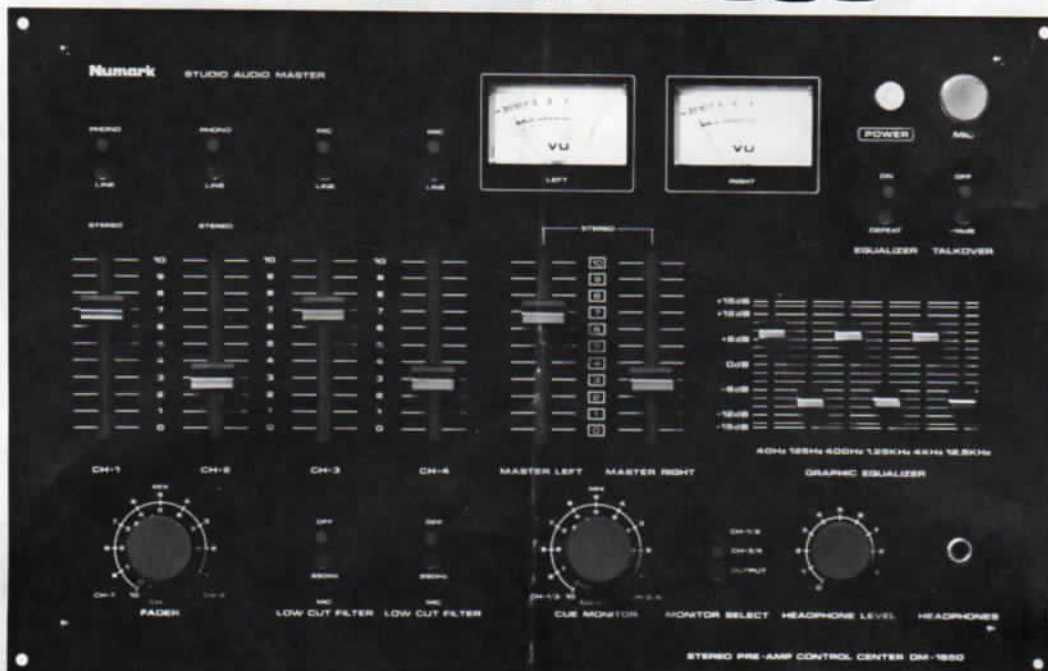


# Numark

## SOUND STUDIO SERIES

### MODEL DM-1550



## STUDIO MASTER

### STEREO EQUALIZER MIXER

NUMARK STUDIO MASTER STEREO EQUALIZER MIXER MODEL DM-1550 is a sound studio control unit combining the qualities of a broadcast mixing console with the features and flexibility needed by a disc jockey.

The DM-1550 incorporates the most advanced integrated circuits and precision components in its design and is capable of handling any quality high powered amplifier, without the use of an external pre-amplifier. It is flexible enough to be used with almost any auxiliary input in a pre-amplifier, integrated amplifier, or receiver. Facilities for 4 stereo program input - and two mono program input and two microphone inputs with low cut filters.

#### BUILT IN SIX CHANNEL STEREO EQUALIZER

NUMARK DM-1550 contains a built in stereo equalizer incorporating the most advanced integrated circuits and precision components in its design. With the Numark DM-1550 you now have at your command complete control when you make your own recordings, to get the excellent quality you require. The equalizer section was designed to allow you to control the frequency response of your entire music system. Normal tone controls vary too much of the audio spectrum. i.e.: increasing the low bass we also increase the middle bass which very often muddies up the whole low end. The SAME is true with the treble control, and its effect on the high end. Model DM-1550's frequency equalizer with its six independent frequency ranges for each stereo channel can give almost an infinite number of possible frequency response variations without adding distortion, hum or hiss. The equalizer also can be used when making recordings of old records without losing the important portion of the music. It can eliminate the scratchy top, add a little bass if needed, and it can make some of those old records come alive again. The DM-1550 frequency equalizer can be used in conjunction with any existing amplifier or receiver that has tape monitoring facilities. The unit may also be used in conjunction with separate pre-amplifier and amplifier.

Built in low noise preamplifier for magnetic phonos and low impedance microphones.

Professional stereo slide controls.

Headphone circuit to monitor each input and output.

Talk switch to attenuate music volume  $-14\text{dB}$  so mic's can be used without readjusting music levels.

Individual left and right master level controls.

Accessory microphone adapter post for convenient microphone mounting.

#### AC LINE OPERATION

**WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

## SPECIFICATIONS

Input Sensitivity . . . . .	MIC	0.5mV (-64dBm)	Frequency Response . . .	MIC	15 to 25000 Hz $\pm$ 2dB
	PHONO	1.20mV (-56dBm)		PHONO	20 to 20000 Hz (RIAA $\pm$ 2dB)
	LINE	70mV (-20dBm)		LINE	10 to 25000 Hz -2dB
Input Impedance . . . . .	MIC	10K ohms	Equalizer Section		
	PHONO	50K ohms	Control Frequencies . .		40Hz, 125Hz, 400Hz, 1.25kHz, 4.0kHz, 12.5kHz
	LINE	50K ohms	Control Range . . . . .		$\pm$ 15dB, Boost or Cut
Input Overload . . . . .	MIC	36dB	Control Type . . . . .		Slide Center Detent for "Flat" setting
	PHONO	40dB	Headphone Output		
	LINE	50dB	(CUE) . . . . .		360mV at 8 ohms at 0.5% T.H.D.
Rated Output . . . . .	MASTER	0.775V	Talkover Switch . . . . .		OFF -14dB
	TAPE	0.775V	Power Consumption . . .		AC 120V 60Hz 8 Watts
Output Impedance . . . . .		100 ohms	Dimensions . . . . .		W 15½" x D 10" x H 4½"
Harmonic Distortion . . .	At Rated Output	0.085%	Shipping Weight . . . . .		11 lbs.
	At 4V RMS Output less than	0.5%			
Signal to noise Ratio . . .	MIC	-58dB			
	PHONO	-62dB			
	LINE	-70dB			

## FEATURES

### INPUT

Both phono inputs CH-1 and CH-2 are for magnetic cartridges and have stereo input level slide controls. With the Input Level Control in the "Min" position no output is obtained; with the Input Level Control at "Max" full output is obtained.

The "Input" jacks are marked CH-1 and CH-2 and the stereo turntable cables should be plugged in with the proper left (L) and right (R) designation as per the turntable manufacturers instructions.

### OUTPUT

Output jacks on the back of the SET should be connected to the stereo receiver amplifier or integrated power AMP input marked AUX INPUTS. The Output is a stereo output and is marked Left (L) and Right (R). Shielded output cable must be used.

### HEADPHONE

The headphone jack on the front panel is for headphone monitoring of either input CH-1/2/3/4 and output. Select the channels by the "MONITOR SELECT" switch used for monitoring CH-1/3, CH-2/4 or OUTPUT - use the HEADPHONE LEVEL Control to adjust headphone volume.

### MIC OR HEADPHONE WITH MIC

When using a headphone with an attached microphone or microphones the microphone plugs must be plugged into either MIC INPUT marked CH-3 or CH-4 jacks on the rear panel. To control MIC OUTPUT volume the corresponding MIC VOLUME control CH-3 or CH-4 on the front panel is used.

### MIC LOW CUT FILTER

Allows for attenuation of wind, rumble and other low frequency noise for microphone. Low frequencies can be rolled off at 250 Hz or left the frequency response flat in the off position.

### POWER OUTPUT METERS

Power output meters light when power is in "ON" position and monitor the output of left and right channels OVU Level 0.775 independently.

### SIX CHANNEL STEREO EQUALIZER

Left and right channels-simultaneously with one slide control for each of six frequency range. 40Hz, 125Hz, 400Hz, 1.25kHz, 4.0kHz, 12.5kHz. Activate for CH-1 and CH-2.

### EQUALIZER DEFEAT PROVISION

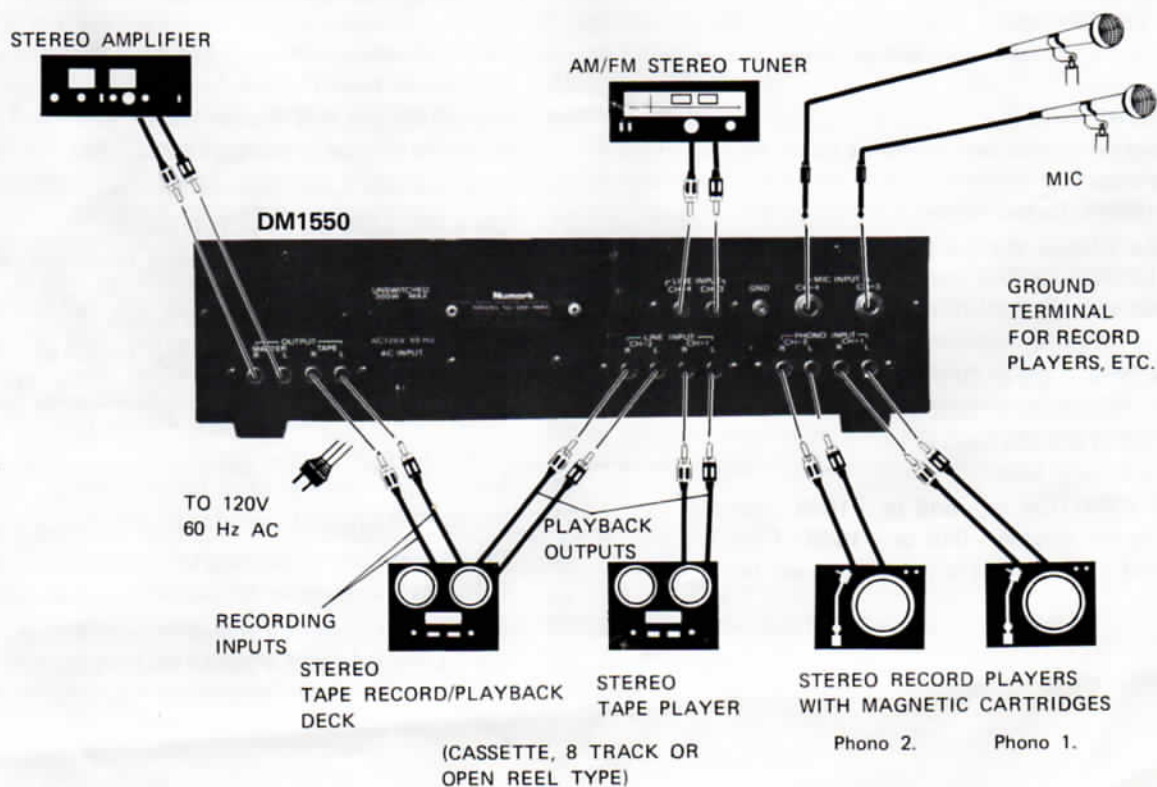
The equalizer section can be deleted from the mixer by switching the equalizer defeat switch to defeat position. To activate equalizer switch to "ON" position.

## OPERATING INSTRUCTIONS

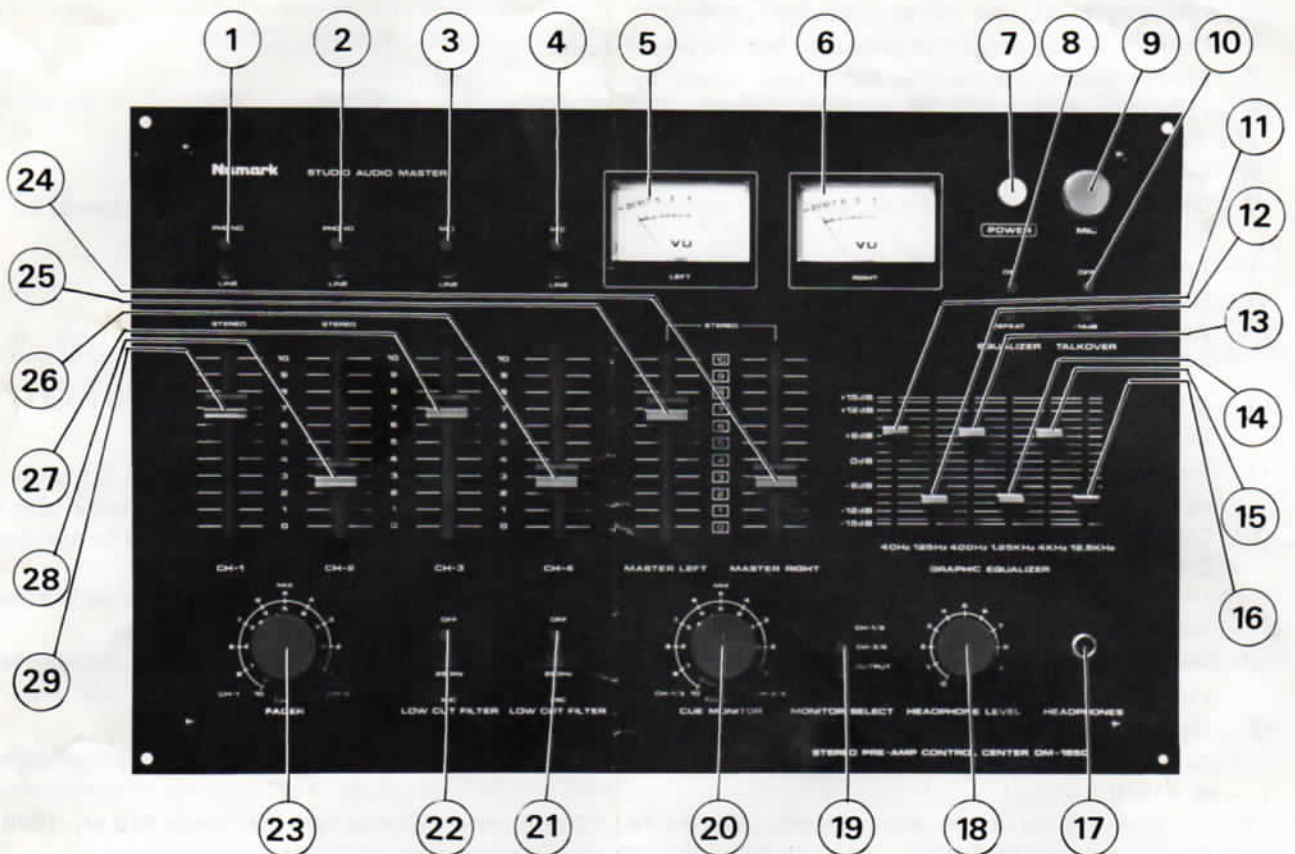
Before plugging the AC cord into an appropriate outlet —

1. Connect all program sources to be used into the proper inputs.
2. Connect your power amplifier and/or tape recorder into the proper outputs.
3. Place all controls to their "0" positions, FADER control to "MIX" position.
4. Talkover switch should be placed at "OFF" position.
5. Choose PHONO CH-1 or LINE CH-1 inputs by switching into proper position.
6. Connect the AC cord to the AC outlet and set the POWER switch to ON by depressing. The meter Lamps will glow in "on" position.
7. Adjust the volume of your power amplifier to desired level.
8. Slide LEFT & RIGHT MASTER control on DM- 1550 to position 7.
9. Activate your input sources and adjust their levels by sliding the input level controls on your DM-1550 to desired volumes.
10. Rotate FADER control counter clockwise (CH1), clockwise (CH-2) to "10" position to play aloud the input source you select.
11. Plug your stereo headphone into proper output on front panel. Select MONITOR SELECT Switch CH-1/3 or CH-2/4 to activate then rotate your CUE MONITOR level control counter clockwise to monitor CH-1/3 or clockwise to monitor CH-2/4 adjusting the HEADPHONE LEVEL at the same time. The CUE MONITOR will allow you to monitor source CH-1 or CH-2 even though one source only is playing aloud.  
i.e.: Turntable CH-1 is playing aloud. Disc-jockey is listening in on turntable CH-2 — so when he mixes he knows what part of turntable CH-2 is playing.  
To monitor the output of the DM1550, switch the MONITOR SELECT switch to "OUTPUT" position. Then you can monitor the mixing up signals of the output terminals.
12. Set MICROPHONE slide controls to loudness desired.  
To attenuate music when using microphones without adjusting input source volumes, set TALKOVER switch to -14dB position.  
i.e.: When making an announcement, etc., using the TALKOVER switch will attenuate the music -14dB  
When switching TALKOVER switch "OFF" position, music will continue at original level.
13. CH-3 and CH-4 are mono inputs for microphone or line, with individual slide controls for both channels.  
In LINE position channel 3 and 4 inputs can be used for electronic instruments.

## REAR PANEL



## FRONT PANEL



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| <p>① CH-1 PHONO/LINE Switch<br/>Selects program source connected to Stereo Phono or Stereo Line Inputs.</p> <p>② CH-2 PHONO/LINE Switch<br/>Selects program source connected to Stereo Phono or Stereo Line Inputs.</p> <p>③ CH-3 MIC/LINE Switch<br/>Selects program source connected to Mono Mic or Mono Line Inputs.</p> <p>④ CH-4 MIC/LINE Switch<br/>Selects program source connected to Mono Mic or Mono Line Inputs.</p> <p>⑤ LEFT CHANNEL Output Meter<br/>OVU Output Voltage: 0.775V RMS</p> <p>⑥ RIGHT CHANNEL Output Meter<br/>OVU Output Voltage: 0.775V RMS</p> <p>⑦ Power Switch<br/>Switches AC Power ON or OFF<br/>Both meters illuminate in "ON" position.</p> <p>⑧ Equalizer Defeat and ON Switch.</p> <p>⑨ Microphone Adapter post.</p> <p>⑩ TALKOVER SWITCH in <math>-14\text{dB}</math> position attenuates music volume <math>-14\text{dB}</math> so Microphone can be used without re-adjusting music levels.</p> | <p>⑪ 6 Channel Graphic Equalizer.</p> <p>⑫ Sliding the control Knob upwards boosts sounds in that band.</p> <p>⑬ Sliding it downwards cuts sounds in that band, Lines on the front panel indicate the amount of boost or cut (in dB) for CH-1 and CH-2.</p> <p>⑭ Stereo Headphone Jack.</p> <p>⑮ Headphone Level Control.</p> <p>⑯ MONITOR SELECT Switch.<br/>CUE CH-1/2, CH-3/4 or OUTPUT.</p> <p>⑰ CUE Monitor Level Control for CH-1/2 and CH3/4.</p> <p>⑱ CH-4 MIC LOW CUT FILTER Switch.<br/>Allows for reduction of the low frequency noise of the microphone.</p> <p>⑲ CH-3 MIC LOW CUT FILTER Switch.<br/>Allows for reduction of the low frequency noise of the microphone.</p> <p>⑳ Fader Control fades CH-1 Phono/Line or CH-2 Phono/Line</p> <p>㉑ Master Right Channel Level for all sources.</p> <p>㉒ Master Left Channel Level for all sources.</p> <p>㉓ CH-4 Level Control for MIC/LINE.</p> <p>㉔ CH-3 Level Control for MIC/LINE.</p> <p>㉕ CH-2 Level Control for Stereo Phono/Line.</p> <p>㉖ CH-1 Level Control for Stereo Phono/Line.</p> |
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