


TIME ALIGNED™ STUDIO MONITOR SYSTEM

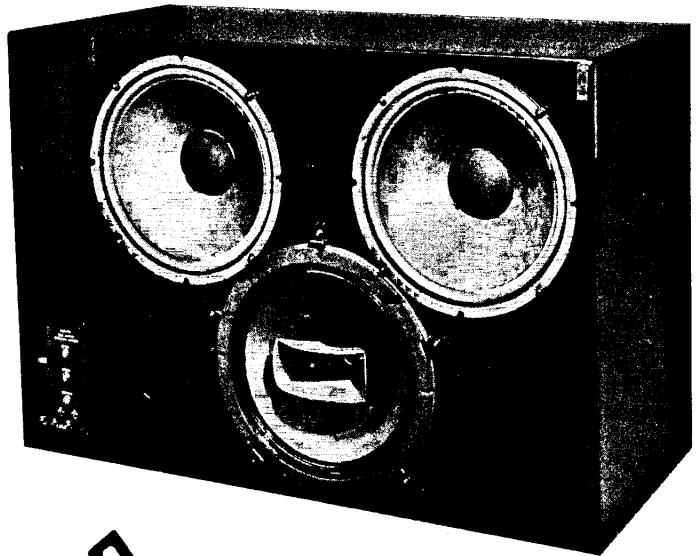
MODEL

815

 Licensed by E. M. Long Associates

FEATURES:

- TIME ALIGNED™ monitor system designed for the professional studio.
- Features UREI 800 series TA™ network (patent pending).
- 604-8G duplex with UREI custom H.F. horn for extended and more uniform H. F. response.
- Two L.F. 15" direct radiating drivers fed from 3-way TA network for extended L.F. response and higher power handling capability at low frequencies.
- 13 cu. ft. enclosure with pressure control aperture for excellent L.F. damping, good efficiency and low distortion.
- Unique enclosure damping method provides high efficiency conversion of low frequency sound pressure to adiabatic energy.




The 815 Studio Monitor System is an additional product of a joint R & D effort of UREI and E.M. Long Associates. The TIME-ALIGNED™ TECHNIQUE is a real-time design method, utilizing proprietary instrumentation developed by Long which allows the driver placements and network parameters to be adjusted simultaneously, achieving near perfect alignment of the frequency components of a complex transient waveform as heard by a listener.

The importance of time (phase) parameters of loudspeaker systems, in addition to smooth frequency response, has been postulated for many years. These group time delay anomalies may be severe in some multi transducer systems, although they may exhibit satisfactory or even excellent frequency response.

Within the last decade, many advocates have presented outstanding scientific papers on this subject. Richard C. Heyser, among others, has contributed magnificent research dealing with the importance of time (phase) correlation.

Quoting from Heyser in Audio, June 1976: "We realize that the concept of time response of a speaker is a whole new ballgame to many people and is probably a bit confusing if all you ever considered before was steady state frequency measurements."

Edward M. Long presented a paper before the Audio Engineering Society in May of 1976, entitled "A Time Align Technique for Loudspeaker System Design." UREI is a licensee of E. M. Long Associates, for the instrumentation methods and the use of the Trademark .

For stereo applications the model 815 Studio Monitor System is built in "mirror-image" (815 L, 815 R) to produce identical dispersion towards the listening position between two systems. The series 800 TA networks* with the 800H custom H. F. horn, are also available separately in two way and three way configuration for both the 604-8G and the 604E. (*Patent Pending).

UNITED RECORDING ELECTRONICS INDUSTRIES

8460 SAN FERNANDO RD., SUN VALLEY, CALIFORNIA 91352

TELEX 65-1389 UREI SNVY

(213) 767-1000

 company

MODEL
815

SPECIFICATIONS:

Type: Triple woofer coaxial with Model 848
three way TA network

Power Rating: 75 watts 40 Hz to 20 kHz, with
pink noise

Frequency response: ± 3 dB, 40 Hz to 15 kHz
measured "freespace"
 4π steradians (h = 5 m, d = 1 m)

Sensitivity: 91 dB SPL/volt/meter

Impedance: 8 ohms, nominal
(minimum impedance > 4 ohms)

Network: UREI 848, 3-way

Cabinet: Utility flat black painted

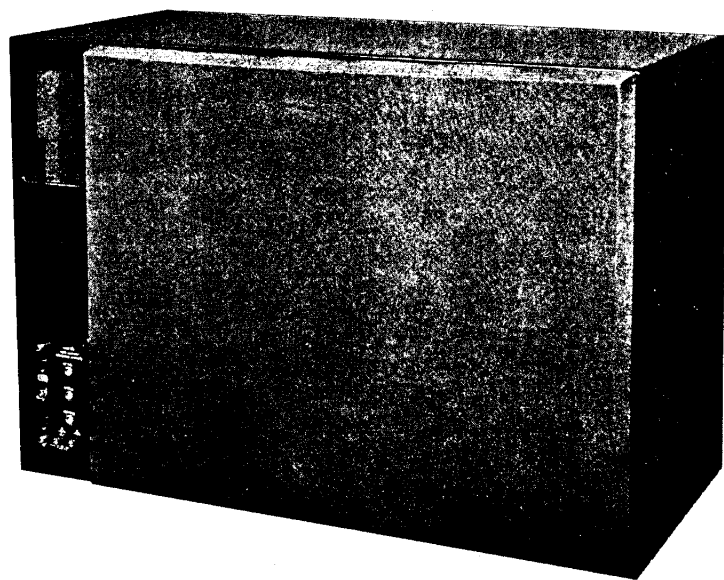
Weight: 102 kg (225 pounds)

Dimensions: Height = 0.813 m (32")

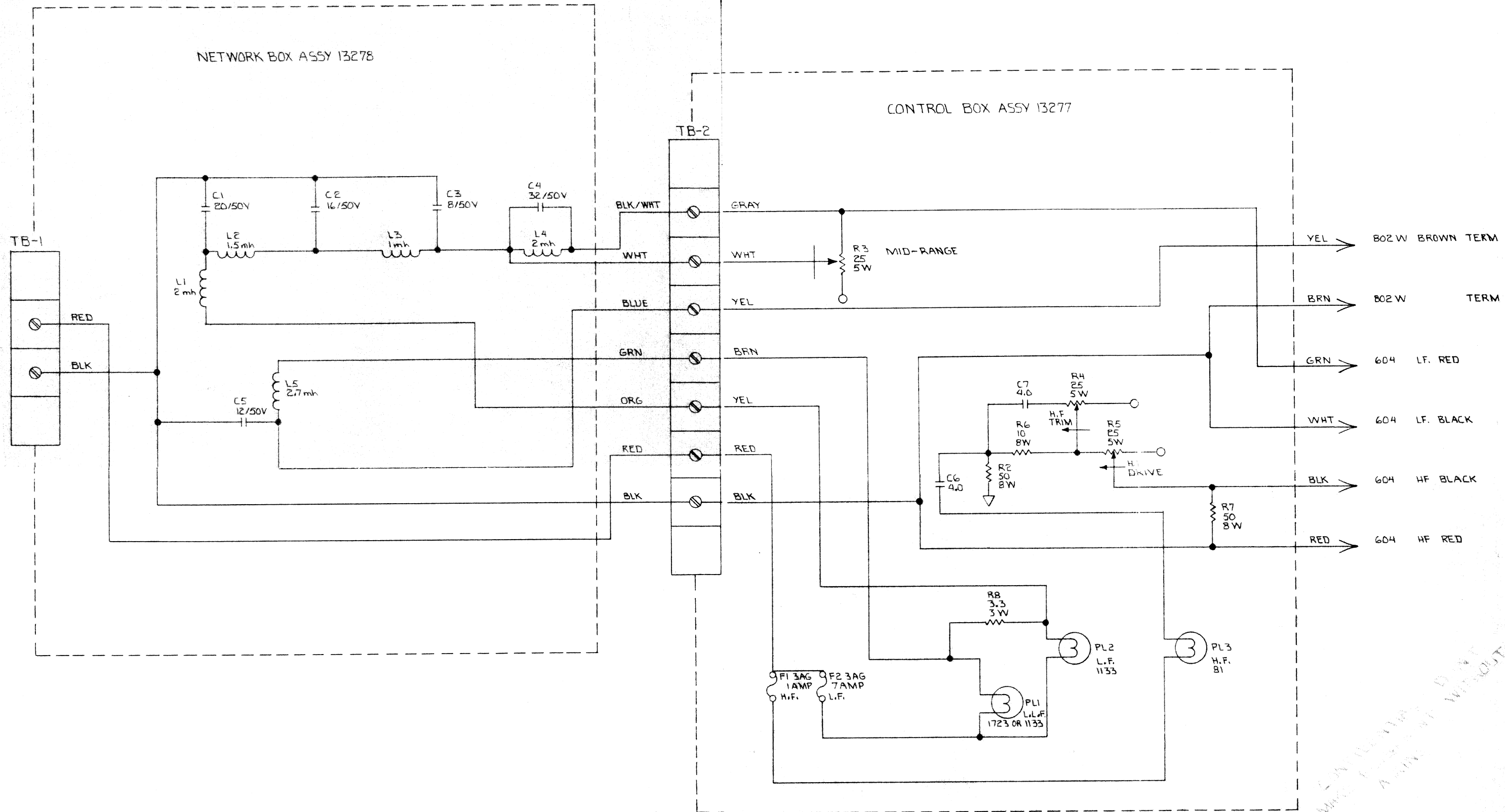
Weight = 1.105 m (43 $\frac{1}{2}$)

Depth = 0.495 m (19 $\frac{1}{2}$ ") without
grille

0.533 m (21") with grille



UREI 815 SYSTEM
WITH ACCESSORY GRILLE



2. CAPACITOR VALUES ARE IN MICROFARADS
 1. RESISTOR VALUES ARE IN OHMS ± 5%
 NOTES: UNLESS OTHERWISE SPECIFIED.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		UNITED RECORDING ELECTRONICS INDUSTRIES 11922 VALERIO STREET, NO HOLLYWOOD, CALIFORNIA 91605
FRACTIONS	DECIMALS	ANGLES	DATE	
±	.XX ±	±	11-1-79	SCHEMATIC
±	.XXX ±	±		
MATERIAL		APPROVALS	CHECKED	SIZE
		R.P. MARKIN		D 848
FINISH				DRAWING NO.
				13279
NEXT ASSY	USED ON			SCALE
APPLICATION	DO NOT SCALE DRAWING			SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE: