



A DIVISION OF LITTON INDUSTRIES

# DATA SHEET

## CINEMA DIVISION

### 5010A BACK STAGE AUDITORIUM LOUSPEAKER

#### INTRODUCTION

The British-made 5010A Back Stage Auditorium Loudspeaker is part of the Westrex series of system-engineered equipments designed to meet the needs of all current and anticipated film formats for all types of cinema theatres.

The Westrex 5010A is a high-quality Duplex stage loudspeaker system, the design of which is based on many years of experience and very recently up-dated to take advantage of new magnetic materials and plastics. It offers separate high-efficiency units for bass and treble reproduction, the response of which can be balanced and directed as required by the auditorium.

Also available is the 5010B in kit form, without the baffle woodwork 2084C. A set of drawings accompanies each kit so that the baffle can be made locally. This is particularly useful to overseas customers.

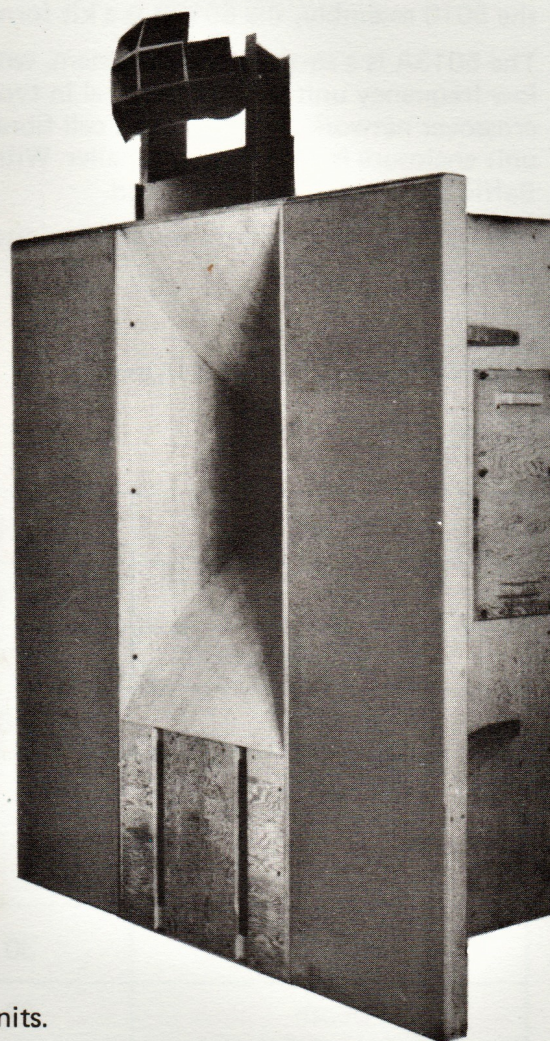
#### MAIN FEATURES

The 5010A Back Stage Auditorium Loudspeaker incorporates the following units:

- (a) Two 2080-F low-frequency loudspeaker units.
- (b) One 2090-G high-frequency loudspeaker unit.
- (c) One 2084-C low-frequency baffle assembly.
- (d) One 2092-B 12-cell high-frequency horn.
- (e) One 31772-C 675 HZ cross-over network.

#### SPECIAL POINTS

1. The high-quality Duplex system has been updated by the employment of ceramic magnets for both the high-frequency and the low-frequency units.
2. To achieve optimum distribution of sound in the auditorium, several multi-cellular and acoustic lens types of high-frequency horn are available to suit auditoria differing in size and shape.
3. Among types available are a 12-cell fibreglass assembly, an 8-cell fibreglass assembly, and a single-cell fibreglass horn with acoustic lens for wide-angle distribution of high-frequency sound.
4. The low-frequency assembly consists of two 15" direct radiators, mounted in a matching baffle.
5. The baffle is designed for side entry, so that the low-frequency units can be easily serviced.



6. The half-section 675 HZ network provides for crossover at the optimum frequency and includes an HF balancing attenuator.
7. An impressive loudspeaker efficiency with a wide frequency band response free from distortion is the hallmark of the 5010A. As the loudspeaker is normally operated in a cinema at only a fraction of its handling capacity, vulnerability to failure is for practical purposes non-existent.

#### ALTERNATIVE

Where it is totally impracticable to use the 5010A loudspeaker assembly because of its size, an alternative is available in the 5013 Back Stage Auditorium Loudspeaker assembly. As with the 5010 assembly, the 5013B is a kit form of the 5013A less the LF Unit wood enclosure.

The 5013A is a smaller Duplex system, with one 2090G high frequency unit, one 2080F low-frequency unit – both identical in type to those used in the larger system, with an identical crossover network. The 209 eight cell fibreglass HF horn replaces the 12 cell horn and the LF unit enclosure is considerably smaller. With both the 5010B & 5013B kits, drawings of the LF Baffle and Enclosure are included.

The 5013A is very suitable for small auditoria (where backstage space is at a premium) or in small review theatres.

#### DIMENSIONS AND WEIGHTS (Approx.)

##### 5010A

Width	80½ ins.	(204.5 cms.)
Depth	39½ ins.	(100.3 cms.)
Height (overall)	102 ins.	(259.1 cms.)
Weight	450 lbs.	(200 kgms.)

##### 5013A

Width	30 ins.	(76.2 cms.)
Depth	27 ins.	(68.6 cms.)
Height (overall)	60 ins.	(152.4 cms.)
Weight	180 lbs.	(81.6 kgms.)

**NOTE.** The Westrex 5000 series of cinema projection and sound equipments are British-made throughout. The Westrex Installation Planning Department is freely available to give advice on any aspect of film presentation.