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**SUPERSEDED**  
REPLACED BY

*LSP*

TECHNICAL INFORMATION

for

LOUDSPEAKER PANEL

MODEL LSP



THE TECHNICAL MATERIEL CORPORATION  
MAMARONECK, N.Y.

OTTAWA, ONTARIO

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# THE TECHNICAL MATERIEL CORPORATION

C O M M U N I C A T I O N S   E N G I N E E R S

700 FENIMORE ROAD

MAMARONECK, N. Y.

## W a r r a n t y

The Technical Materiel Corporation, hereinafter referred to as TMC, warrants the equipment (except electron tubes,\*fuses, lamps, batteries and articles made of glass or other fragile or other expendable materials) purchased hereunder to be free from defect in materials and workmanship under normal use and service, when used for the purposes for which the same is designed, for a period of one year from the date of delivery F.O.B. factory. TMC further warrants that the equipment will perform in a manner equal to or better than published technical specifications as amended by any additions or corrections thereto accompanying the formal equipment offer.

TMC will replace or repair any such defective items, F.O.B. factory, which may fail within the stated warranty period, PROVIDED:

1. That any claim of defect under this warranty is made within sixty (60) days after discovery thereof and that inspection by TMC, if required, indicates the validity of such claim to TMC's satisfaction.
2. That the defect is not the result of damage incurred in shipment from or to the factory.
3. That the equipment has not been altered in any way either as to design or use whether by replacement parts not supplied or approved by TMC, or otherwise.
4. That any equipment or accessories furnished but not manufactured by TMC, or not of TMC design shall be subject only to such adjustments as TMC may obtain from the supplier thereof.

Electron tubes\*furnished by TMC, but manufactured by others, bear only the warranty given by such other manufacturers. Electron tube warranty claims should be made directly to the manufacturer of such tubes.

TMC's obligation under this warranty is limited to the repair or replacement of defective parts with the exceptions noted above.

At TMC's option any defective part or equipment which fails within the warranty period shall be returned to TMC's factory for inspection, properly packed with shipping charges prepaid. No parts or equipment shall be returned to TMC, unless a return authorization is issued by TMC.

No warranties, express or implied, other than those specifically set forth herein shall be applicable to any equipment manufactured or furnished by TMC and the foregoing warranty shall constitute the Buyers sole right and remedy. In no event does TMC assume any liability for consequential damages, or for loss, damage or expense directly or indirectly arising from the use of TMC Products, or any inability to use them either separately or in combination with other equipment or materials or from any other cause.

\*Electron tubes also include semi-conductor devices.

### *PROCEDURE FOR RETURN OF MATERIAL OR EQUIPMENT*

Should it be necessary to return equipment or material for repair or replacement, whether within warranty or otherwise, a return authorization must be obtained from TMC prior to shipment. The request for return authorization should include the following information:

1. Model Number of Equipment.
2. Serial Number of Equipment.
3. TMC Part Number.
4. Nature of defect or cause of failure.
5. The contract or purchase order under which equipment was delivered.

### *PROCEDURE FOR ORDERING REPLACEMENT PARTS*

When ordering replacement parts, the following information must be included in the order as applicable:

1. Quantity Required.
2. TMC Part Number.
3. Equipment in which used by TMC or Military Model Number.
4. Brief Description of the Item.
5. The *Crystal Frequency* if the order includes crystals.

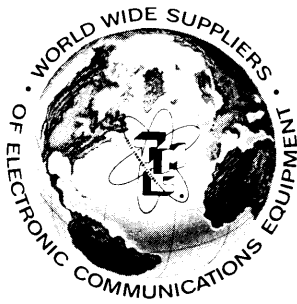
### *PROCEDURE IN THE EVENT OF DAMAGE INCURRED IN SHIPMENT*

TMC's Warranty specifically excludes damage incurred in shipment to or from the factory. In the event equipment is received in damaged condition, the carrier should be notified immediately. Claims for such damage should be filed with the carrier involved and not with TMC.

All correspondence pertaining to Warranty Claims, return, repair, or replacement and all material or equipment returned for repair or replacement, within Warranty or otherwise, should be addressed as follows:

THE TECHNICAL MATERIEL CORPORATION  
Engineering Services Department  
700 Fenimore Road  
Mamaroneck, New York





## TECHNICAL BULLETIN NUMBER 9008A

Loudspeaker Panels

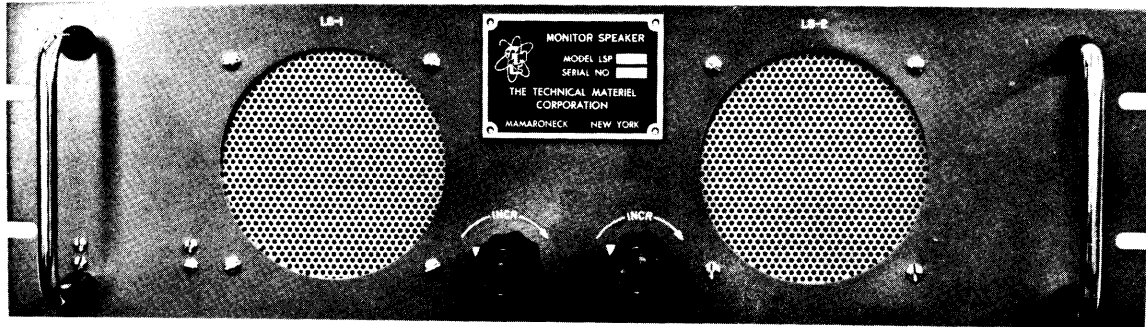
TMC Models LSP

Models BSP

Models GPS

LS-452/U

LS-453/U



**TMC MODEL LSP-7**

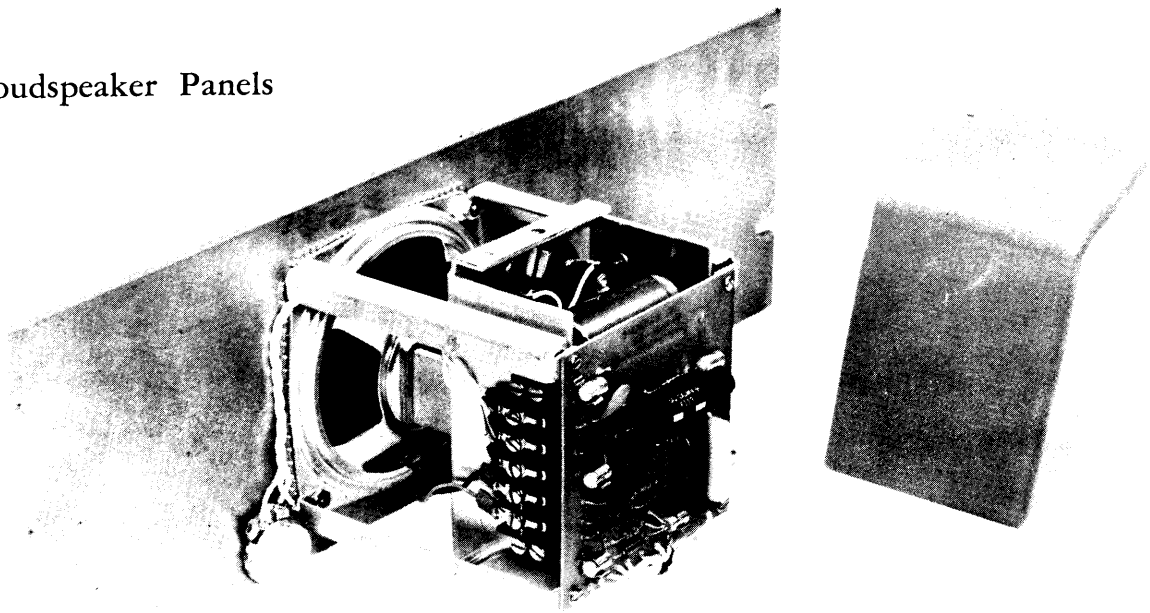
TMC series of loudspeaker panels are designed to provide monitor capability for communication facilities with a wide selection of speakers available. Most of the speakers in this series are mounted on  $5\frac{1}{4}'' \times 19''$  panels with one, two, or three speakers per panel. Some of the speaker panels in this series include transistorized bridging amplifiers with high impedance input for dynamic monitoring of audio circuits.

Models GPS are single 8" speakers in self-contained cabinets that will accept up to 7 watts from any 4 ohm receiver output.

*TABLE OF AVAILABLE MODELS*

MODEL	NUMBER OF 4" P. M. SPEAKERS	DIMENSIONS IN INCHES			NOTES
		HEIGHT	WIDTH	DEPTH	
LSP-4 (LS-452/U)	1	5¼	19	2½	
LSP-6 (LS-453/U)	2	5¼	19	2½	
LSP-7	2	5¼	19	2½	two volume controls
LSP-8	3	7	19	2½	three volume controls
BSP-1D	1	5¼	19	6½	one bridging amplifier
BSP-2D	2	5¼	19	6½	two bridging amplifiers
BSP-3D	3	5¼	19	6½	three bridging amplifiers
GPS-1	1 (8")	10	12	8	
GPS-2	1 (8")	10	12	15	

## Loudspeaker Panels



TMC MODEL BSP-1

### TECHNICAL SPECIFICATIONS

IMPEDANCE:	3.2 ohms per loudspeaker.
POWER CAPABILITY:	Approximately 4 watts per speaker (4"). Approximately 7 watts per speaker (8").
AMPLIFIER POWER GAIN:	Amplifier power gain is 36 db. Amplifier will provide 1 watt of output at -6 db input.
AMPLIFIER INPUT IMPEDANCE:	10,000 ohms
AMPLIFIER DISTORTION:	2% at 1 watt at 400 cps.
AVERAGE AMPLIFIER FREQUENCY RESPONSE:	200 to 7000 cps at 3 db points.
HUM LEVEL:	-40 db at 1 watt output.
AMPLIFIER COMPLEMENT:	6 transistors in each amplifier.
AMPLIFIER POWER REQUIREMENTS:	115v, 60 cps, approximately 8 watts per amplifier.
COMPONENTS AND CONSTRUCTION:	All equipment manufactured in accordance with JAN/MIL specifications wherever practicable.

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THE TECHNICAL MATERIEL CORPORATION

CABLE "TEPEI"

TWX 710-566 1100

MAMARONECK, N.Y. 10543

THE WORLD-WIDE SYSTEM OF REMOTE CONTROLLED COMMUNICATIONS

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