

FILM-TECH

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DESCRIPTION

The sound head mechanism is contained in an assembly of aluminum castings approximately 12 inches long by 11 3/4 inches deep by 9 1/2 inches high. A 1/4 HP #48 frame electric motor is mounted outside these dimensions. Weight including motor 70 pounds.

The operating side of the sound head is covered by 2 doors. An 8 3/4 x 8 1/2 inch door provides access to the film compartment and a 3 1/4 x 8 1/2 inch door provides access to the exciter lamp and preamplifier compartments. The drive mechanism gear belts and pulley are accessible by removing a rear cover held to the main housing by three captive thumb screws.

The principal functioning elements of the sound head are, motor, drive mechanism, pressure roller, sound drum, exciter lamp assembly, optics, solar cell, preamplifier, and sound damping mechanism.

The 1/4 horsepower motor drives through an 18 tooth pulley and a .2 pitch 1/2 inch wide gear belt to the film sprocket which has an 89 tooth gear belt pulley. This gives a ratio of 18/89 which reduces the 1780 RPM speed of the motor to 360 RPM which is the film sprocket speed. The 16 tooth sprocket drives film at 24 frames per second. Carried on the film sprocket shaft is a second gear belt pulley with 66 teeth. This pulley drives through a gear belt and an 18 tooth gear belt pulley on the projector to drive the projector at 24 frames per second synchronized with the sound head film sprocket speed. A pulley is also provided on the sprocket shaft for power take off to drive the take up magazine.

The film is delivered continuously to the sound head by the lower sprocket of the projector. The film passes slack from the projector sprocket to the sound drum. It is held against the sound drum by a retractable felt pressure roller which has flanges controlling the lateral position of the film. Through friction the film rotates the pressure roller and the sound drum with its flywheel. After leaving the sound drum the film passes over an idler roller, then to a damper roller, then to the film sprocket of the sound head. From this sprocket the film passes through a fire valve into the film take up magazine. Between the sound drum and the film sprocket, the film is under about 1 1/2 ounces of tension. This tension is maintained by a silicone fluid (Dow 200 Fluid - 200,000 centistoke) damped and spring actuated damper roller. The damper roller working with the sound drum flywheel damps the hunting tendency of the mechanism at start up and absorbs variations in film drive, minimizing the wow content of the sound system. Flutter is kept low by the sound drum flywheel and the spring characteristics of the film as it passes over the idler and damper rollers. Two pad rollers are provided to remove any chance that the film sprocket will jump film perforations. The distance along the film from the projector aperture to the sound take off point is 20 frames.

An exciter lamp illuminates a slit in a lens tube. This lens tube focuses the illuminated slit at the film plane in a pattern .084 inches long by a .0012 inches wide. Approximately 9/16 inch beyond the film plane is a silicon solar cell. The photographic sound track of the film breaks up the light pattern on the solar cell as the film passes over the sound drum. The resulting signal is fed through a signal attenuating potentiometer (balance adjustment) mounted on the main frame to the right of the sound drum to the preamplifier. The preamplifier supplies an amplified signal to the theatre sound system.

The preamplifier is a modular unit assembled as a printed circuit board. The copper of the circuit board forms the contacts which mate with the jack receiving the circuit board. A plastic pin slips into a rubber grommet when the preamplifier is installed and secures it in position. The output of the preamplifier is controlled by a potentiometer located on the smaller door of the sound head. The preamplifier is approximately 3 x 3 1/2 x 1/2 inches in size.

The procedure for threading film through the sound head is as follows: Bring the film down from a properly threaded projector. With the pressure roller retracted pass the film between the pressure roller and the sound drum. Allow the pressure roller to come against the sound drum with the film between its flanges. Pass the film to the right over the idler roller, approximately one half way around the idler roller and to the left over the damper roller, half around the damper roller and between the opened pad rollers and the film sprocket. The film should be pulled snug through the system to the film sprocket with the damper arm pulled against its stop on the pad roller arm. Back the film tension off to engage the 1st available film perforation with the sprocket. Close the pad rollers. Closing the pad rollers allows the damper arm additional rotation and allows the damper arm spring to control the film tension. From the film sprocket the film passes directly through the fire valve into the takeup magazine.

The motor is controlled by means of a toggle switch mounted at the front of the sound head on the film side.

The change over switch is mounted on the rear door of the sound head, on the film side.

INSTALLATION

ELECTRICAL SUPPLY REQUIREMENTS

Motor - 117 VAC 60 Hz 15 Amperes

Preamplifier - 22 VDC 20 ma (1 MV ripple max.)

Exciter Lamp - 10 Volts 5 Amperes

The sound mechanism preassembled components include =

(1) Main frame with rear guard

Drive belt

Exciter lamp holder

Preamplifier

(2) Motor mounting plate, with assembly screws and washers.

Motor

Flywheel and pulley

Motor switch

Loose parts are supplied as follows =

1 - Projector drive pulley with elastic stop nut and washer
4 - Sound mechanism to pedestal mounting screws with washers
1 - Projector drive belt
1 - Motor belt guard .

1. Sound Mechanism Support.

- a. Remove all existing equipment from the projector pedestals. or in new installations position the pedestals properly with respect to the projection ports. Allow not less than six inches clearance between the front of the sound mechanism and the front wall.

- b. Mount the sound mechanism supports on the pedestals.

2. Main Frame

- a. Insert two sound mechanism fastening screws with washers in the upper holes of the main frame.
- b. Position the main frame on the sound mechanism support, with the two screws, in the slotted holes in the support.
- c. Insert two similar screws, with washers in the two lower holes of the sound mechanism support and tighten all screws securely.

3. Motor Assembly

- a. Assemble the mounting plate including motor, flywheel, pulley and switch in front of and under the sound mechanism by means of the four screws and washers provided.
- b. Loosen the motor mounting bolts and slip the drive belt over the motor pulley.
- c. Position the motor to provide reasonable tension of the belt and to line up the motor pulley with the larger pulley on the film sprocket shaft. Tighten the motor mounting bolts and install the belt guard.

4. Projector

- a. Mount the projector on top of the sound mechanism and after lining up the film path fasten by means of screws provided.
- b. Mount the drive pulley on the projector drive shaft securing it by means of the elastic stop nut and washer.
- c. Slip the drive belt over the projector drive pulley and the large sound mechanism pulley. Tension belt by means of the adjustable idler assembly.
- d. Assemble sound drum flywheel on the drum shaft tightening the set screw on the groove in the shaft.

5. Lower Magazine

- a. Mount the lower magazine under the sound mechanism securing it with screws supplied with the magazine.
- b. Cut the takeup belt to length, thread over the drive and magazine pulleys and secure with the belt hook.

ADJUSTMENTS

1. The proper lateral film position is attained by rotation of the pressure roller shaft. This shaft is locked by means of a small set screw with nylon pad inserts. The adjustment is performed with the use of buzz track test film per ASA PH22.68-1962.
2. The alignment of the optics is accomplished by azimuth and axial adjustment of the lens tube while using 9000 cycle sound focusing film ASA 22.62-1960. After positioning the lens tube for maximum solar cell output the tube is secured in place by 2 clamping screws.
3. The position of the exciter lamp is to be adjusted for maximum solar cell output. The exciter lamp mounting provides lateral and vertical adjustments with locking devices.
4. The closed position of the pad rollers must be adjusted to properly handle film with a minimum of clearance (2 film thicknesses) between the pad rollers and the film sprocket. This is accomplished by rotating the whole damper arm and pad roller assembly about a locating dowel and securing the main plate of the assembly in place by its attaching screws.

LUBRICATION

Monthly:

1. A drop of Simplex Projector oil at each oilite bearing on each of the 2 film guide rollers.
2. A drop of Simplex Projector oil at the cylindrical fit between the 2 flanges of the film guide roller.
3. A drop of SAE 30 oil between the races of the projector drive belt idler bearing.

Semi-Annually:

1. Apply a light coating of Dow FS-1290 Silicone Grease (or equivalent) to the guide pins of the guide roller carrier.
2. A drop or two of Simplex Projector oil at the inside diameter of the shields of the 2 sound drum bearings.
3. Grease the pivot points of the pad roller liner spring with Dow FS-1290 Silicone Grease (or equivalent).

Annually:

1. Two drops of SAE-10 oil at each motor bearing.

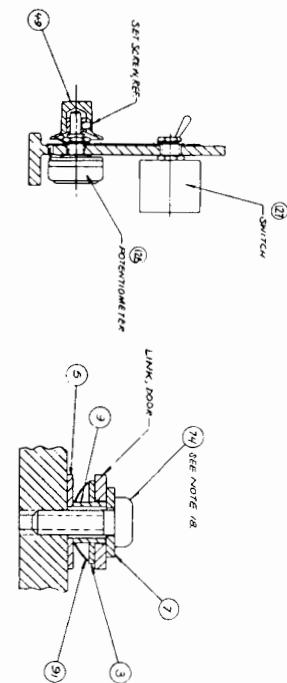
Associated Drawings and Parts Lists

H-41900 Sheet 1 & 2 Sound Head Complete
D-41901 Preamplifier Assembly
D-41906 Preamplifier Schematic
G-41908 Wiring Diagram & Schematic
G-41941 Film Damper & Pad Roller Assembly
G-41950 Film Guide & Lens Tube Assembly
B-41964 Solar Cell & Bracket Assembly
D-42000 Exciter Lamp Bracket Assembly
D-41912 Wire Harness
D-42019 Door Assemblies

ER ARPLY LOCTITE SEALANT, GRADE
AN, GAS X60 TO THREADS OF
SCREWS, ITEM 60 TUBE, #2 AND
BY THRU 87

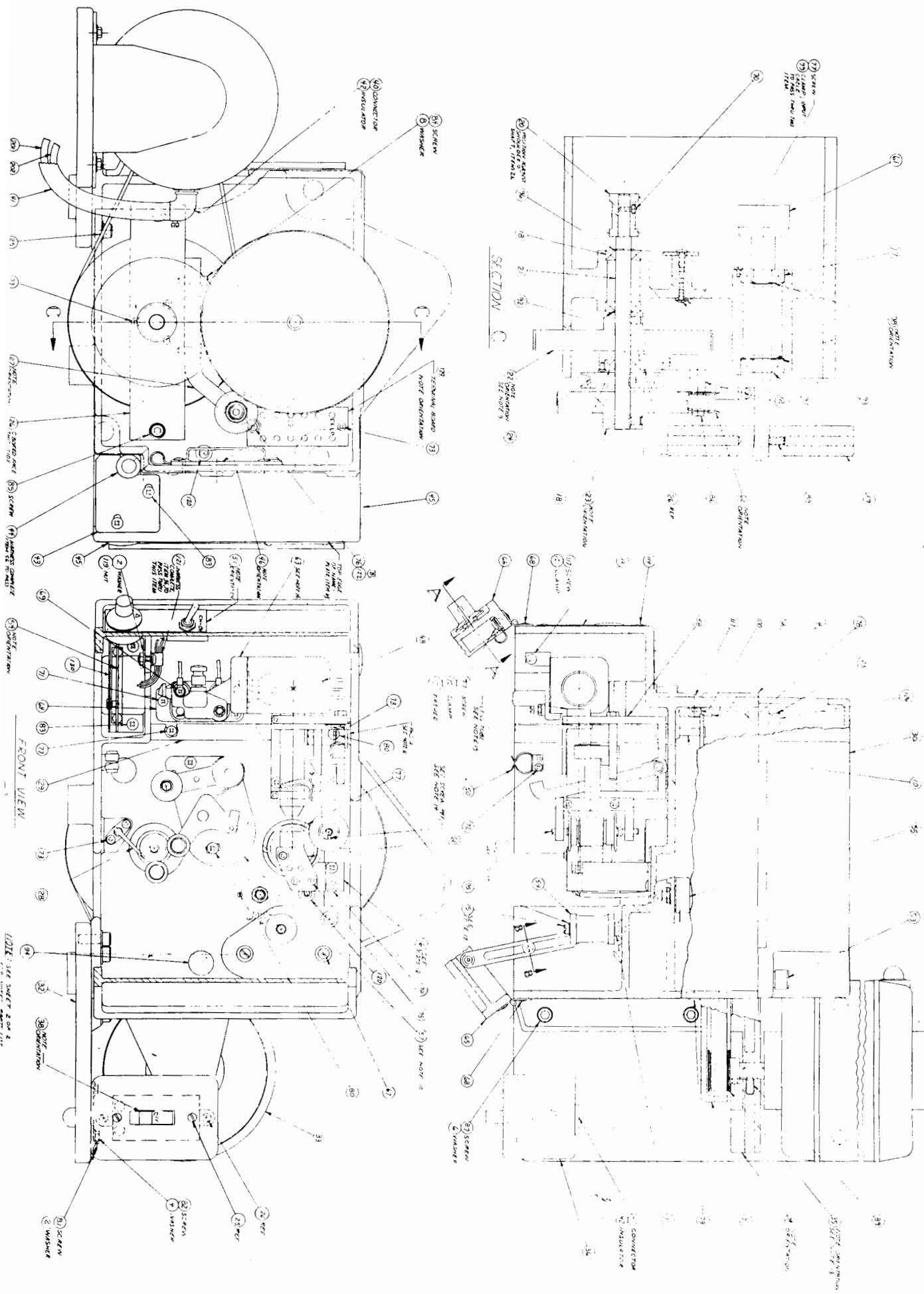
WASH. ON TOP WALL OR ROOFING.
ADJUST & SECURE SUPPORT BRACKET
ITEM 15, SO THE SOUND DOME DOES
NOT RUB ON ANYTHING.

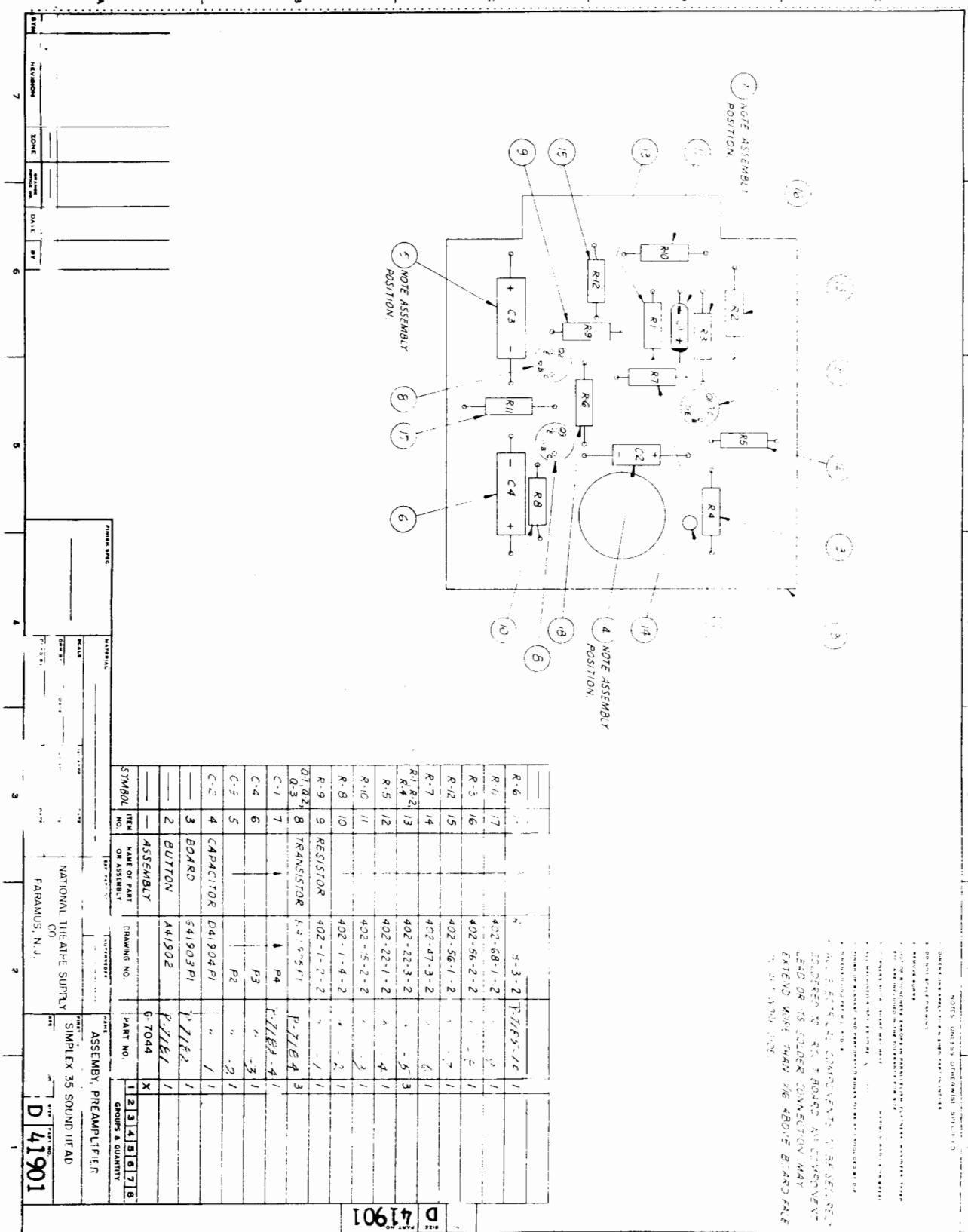
9 REMOVE SHIRT END ROLLER,
COMPRESSING WASHER SPRING OR
ITEM 92 APPROX. 50% OF TOTAL
ALLOWABLE DEFLECTION INWARD.
ASSEMBLING PULLEY ITEM 22.
TO SHIRT ITEM 21.



SECTION A

SECTION B





DO NOT USE THIS BOARD
FOR HIGH VOLTAGE
APPLICATIONS.
DO NOT CONNECT THE GND PIN OF THE
BOARD TO THE GND PIN OF THE
EXTENDED BOARD.
DO NOT CONNECT THE GND PIN OF THE
EXTENDED BOARD TO THE GND PIN OF THE
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POTENTIOMETER
P-2GRN
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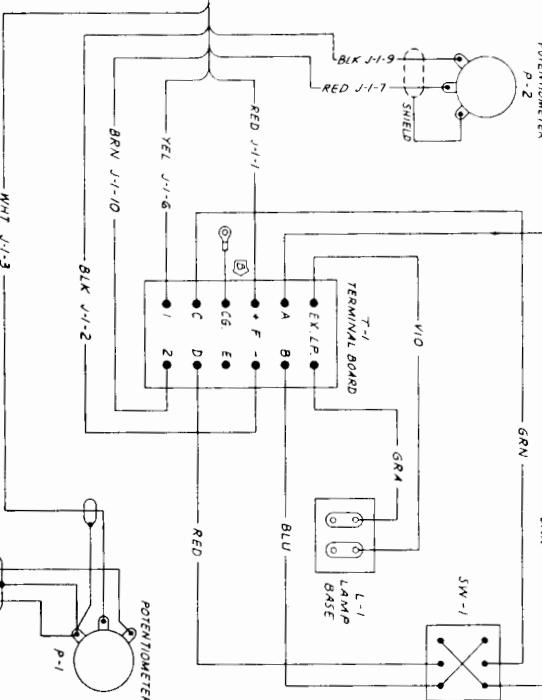
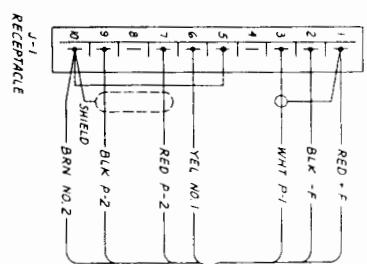
SW-1

G 41908

DIAGRAM, ELECTRICAL

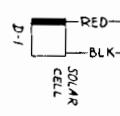
SIMPLEX 35 SOUND HEAD

G 41908



RECEPTACLE

WIRING DIAGRAM

SOLAR
CELL

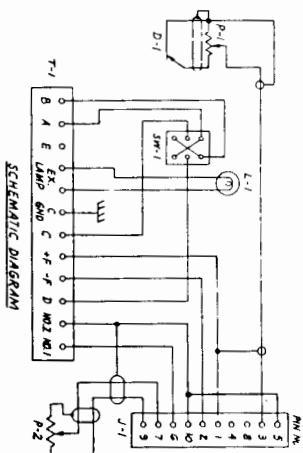
POTENTIOMETER

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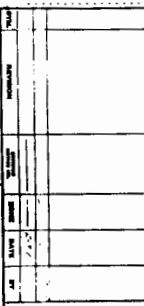
SW-1

L-1

B-1



SCHEMATIC DIAGRAM



SYMBOL	DESCRIPTION	REFERENCE
T-1	BOARD ASSEMBLY, TERMINAL	G-704
SW-1	SWITCH, DPDT	P-702
P-2	POTENTIOMETER, 1000 OHMS, 10 TAPER	P-703
P-1	POTENTIOMETER, 500 OHMS, 10 TAPER	P-704
L-1	LAMP, INCER	P-705
J-1	CONNECTOR (TRAY ASSEMBLY)	G-705
D-1	SOLAR CELL	AP-343

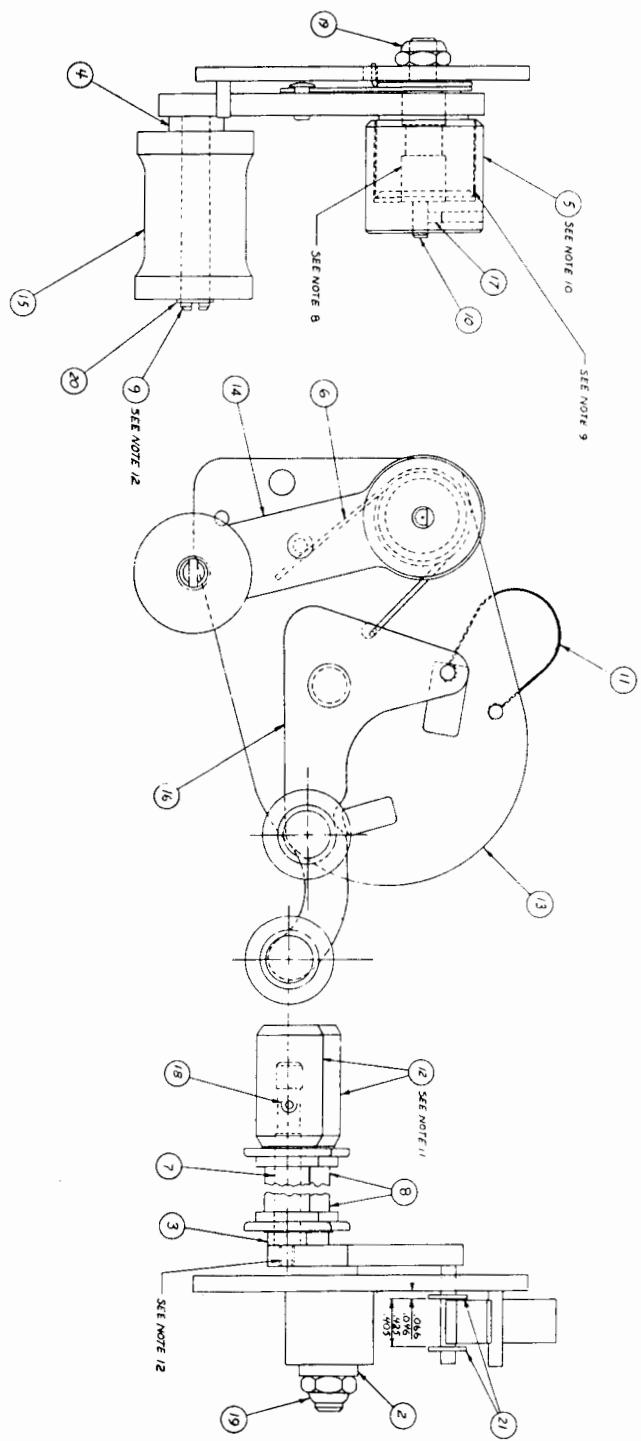
SYMBOL	DESCRIPTION	REFERENCE
NATIONAL THEATRE SUPPLY		
PARAMUS, N.J.		

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G 41941

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REMARKS:
 1. INDICATE BEARING SURFACE BY NUMBER
 2. ITEMS 10 AND 11 WITH GREASE NO CS-1200
 AVAILABLE FROM DOW CORNING CORP.
 3. INDUCED, MICH.
 4. FILE CYLINDRICAL INTERFACE BETWEEN
 200 CLOUD AVAILABLE FROM DOW CORNING
 INDUCED, MICH.
 5. SECURE ITEM 10
 BEFORE SECURING ITEM 17
 6. POSITION ITEM 12 TO PROVIDE .005 TO .010
 END PLAY OF ITEMS 8
 7. APPLY LOCTITE 26100, GRADE A4,
 GRS 765 TO THREADS OF SWIVEL
 ITEMS 7 AND 9 BEFORE ASSEMBLY



**ITEMS 5 AND 14 WITH 200,000 CENTISTOKE
 200 CLOUD AVAILABLE FROM DOW CORNING**

**ITEMS 10 AND 11 WITH GREASE NO CS-1200
 AVAILABLE FROM DOW CORNING CORP.**

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**ITEMS 10 AND 11 WITH GREASE NO CS-1200
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ITEM NO.	DESCRIPTION	QTY	REF.
1	SWIVEL ASSY	1	G-7049
2	WASHER PLAT	2	P-7122
3	SPACER	2	P-7121
4	SCREWE	4	A-41949
5	CAP	1	P-7120
6	SWIVEL	1	P-7119
7	SWIVEL	2	P-7118
8	ROD	1	A-41947
9	SWIVEL	1	P-7116
10	SWIVEL	1	P-7009
11	SCREWE	4	A-41948
12	SCREWE	2	A-41949
13	PLATE ASSY	1	B-19916
14	ROD	1	P-7115
15	SWIVEL	1	P-7114
16	SCREWE	4	A-41946
17	SCREWE	4	A-41945
18	ROD	1	P-7113
19	SCREWE	4	A-41944
20	SCREWE	4	A-41945
21	SCREWE	4	A-41946

ITEM NO.	DESCRIPTION	QTY	REF.
1	FILM DOWELLER / SWIVEL ASSEMBLY	1	G-41941
2	NATIONAL RAILWAY SUPPLY	1	
3	PARASOL N.	1	
4	SHARP EX-35 SOUND HEAD	1	

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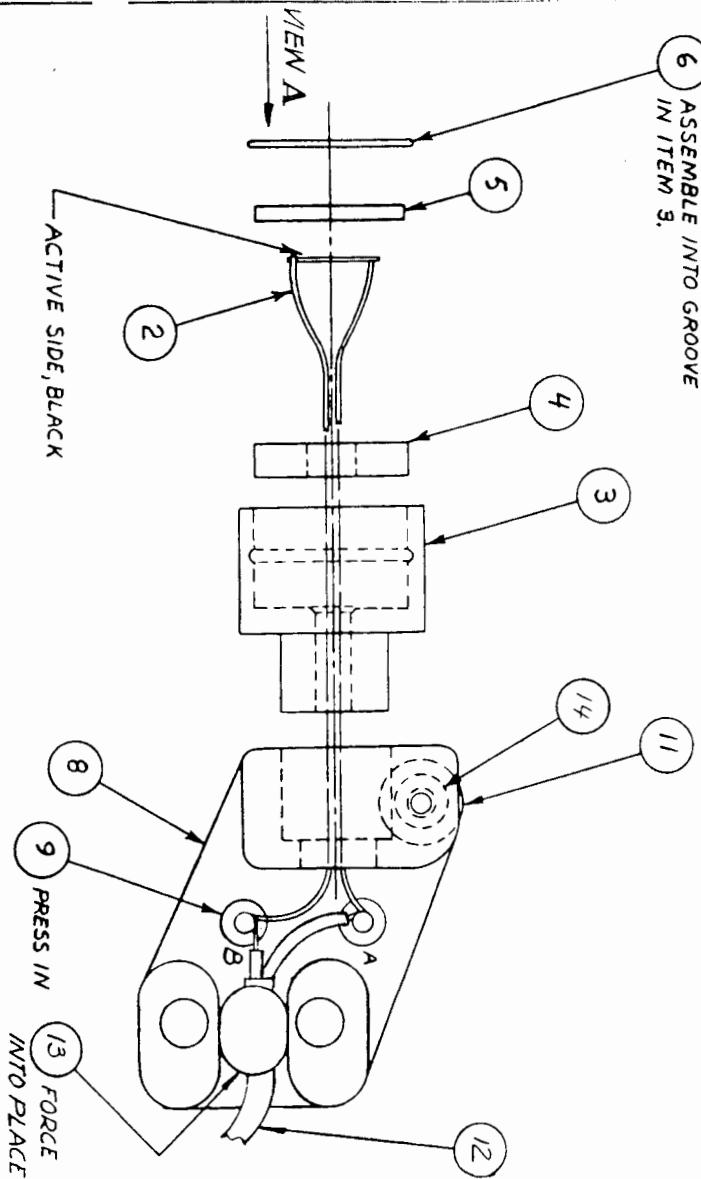
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REV. **B** SIZE PART NO.
41964

NOTES: UNLESS OTHERWISE SPECIFIED

- 1. DIMENSIONS APPLY TO FINISHED PART IN INCHES.
- 2. REMOVE SURFS.
- 3. OUT OF COUPLING, RADICES IN PARALLEL, FLATNESS, WAVINESS, TAPER, SELL, ARE INCLUDED IN THE TOLERANCE FOR THESE PLATES.
- 4. DECIMAL DIMENSION TOLERANCE \pm _____
- 5. FRACTIONAL DIMENSION TOLERANCE \pm _____
- 6. ANGULAR DIMENSION TOLERANCE \pm _____
- 7. CORNERS SHOWN SHARP MATT HAVE _____ MAXIMUM RADIUS ON BREAK.
- 8. ALL MACHINED SURFACES TO BE $\sqrt{\quad}$
- 9. FINISH OF BLANKED AND PERFORATED EDGES TO BE AS PRODUCED BY DIE.
- 10. DIMENSIONING PER MIL. STD. 8



ITEM NO.	NAME OF PART OR ASSEMBLY	DRAWING NO.	PART NO.	GROUPS & QUANTITY							
				1	2	3	4	5	6	7	8
				X	/						

FINISH SPEC.: MATERIAL EXP. PART NO. SUPERSEDE NAME

SYN.	REVISION	CHANGER NO.	DATE	BY	SCALE	DRAWN BY	LM'D BY	1. APPROV.	2. APPROV.	3. APPROV.	PART NO.
											41964

NATIONAL THEATRE SUPPLY CO.

CO.

SIMPLEX 35 SOUND HEAD

LAST PRINT USED ON **B** PART NO.

PRINT SPEC.		MATERIAL		PART NO.		QUANTITY		NOTES					
ITEM NO.	NAME OF PART OR ASSEMBLY	DRAWING NO.	PART NO.	DESCRIPTION	REMARKS	GROUPS	QUANTITY	NOTES	NOTES				
								NOTES UNLESS OTHERWISE SPECIFIED					
								DIMENSIONS ARE IN INCHES EXCEPT WHERE SPECIFIED DO NOT SCALE DRAWING REVERSE SIDE TOP OR BOTTOM SIDE IS PARALLEL TO PLATE ETC. ARE INCLUDED IN THE TOLERANCE FOR SIZE Circles with numbers are part ALL DIMENSIONS REFERRED TO SIZE PRINTED DRAWINGS AND APPROVED DRAWINGS ARE PRODUCTION DRAWINGS DRAWINGS ARE NOT TO SCALE					
1	ASSEMBLY	G-2078	D-42000										
2	NUT	20086114	P-1817	1									
20	SCREW	16-6RH	H-005	3									
19	SCREW	106.06-10M	P-1814	1									
18	SCREW	102.86R10H	H-009	3									
17	SOCKET ASSEMBLY	B42009G	G-2077	1									
16	BRACKET ASSEMBLY	D42006G	G-2076	1									
15	NUT STRIP	A42005	P-2702	1									
14	CONTACT	A42004	P-2697	1									
13	SPRING	A42003	P-2696	1									
12	PLATE RETAINER	A42002	P-2695	1									
11	PLATE SPRING	A42001	P-2694	1									
10	SHIELD	B41999P	P-2693	1									
9	SCREW LOCKING	A41998	P-2690	1									
8	NUT LOCKING	A41996	P-2688	1									
7	BRACKET BLOCK	B41995P2	P-2687	1									
6	PLUG	A41994	P-2686	1									
5	LOCKING BACK	B41993P1	P-2689	1									
4	SCREW ADJUSTING	B41992P	P-2692	1									
3	BLOCK MACHINED	B41947P2	P-2689	1									
2	NUT	30553-7H	H-3229	2									
ASSEMBLY		G-2078	D-42000										
ITEM NO. OR ASSEMBLY		DRAWING NO.	PART NO.	1	2	3	4	5	6	7	8		
				GROUPS & QUANTITY									
				PARTS LIST									
				EXCL. EXCITER LAMP									
				NATIONAL THEATRE SUPPLY CO., PARAMUS, N.J.									
				SIMPLEX 35 SOUND HEAD									
				DATE 4/2000									
				REV. A									
				PRINTED 4/2000									

