

**LABORATORY PUNCH & DIES**

The Laboratory Punch and Die is a precision tool used for the production of miniature sockets and plugs. It is designed to produce sockets and plugs of various sizes and shapes, and is used in the laboratory for the production of miniature sockets and plugs. The punch and die are used to produce sockets and plugs of various sizes and shapes, and are used in the laboratory for the production of miniature sockets and plugs.



**LD-3, LD-4, LD-5 & LD-6 DIES**

For punching holes for Amphenol miniature sockets and plugs. One punch for each size. The dies are used to produce sockets and plugs of various sizes and shapes, and are used in the laboratory for the production of miniature sockets and plugs.



**LD-1 & LD-2 DIES**

For punching holes for Amphenol miniature sockets and plugs. One punch for each size. The dies are used to produce sockets and plugs of various sizes and shapes, and are used in the laboratory for the production of miniature sockets and plugs.



**LD-1 & LD-2 DIES**

**LD-3, LD-4, LD-5 & LD-6 DIES**

**LD-1 & LD-2 DIES**

**PUNCH PRESS PRODUCTION DIES**

**No. PP-1 & PP-2 - List Price \$335 each**

**RETAINER RING HAND TOOLS**

**FOR No. 2, 9, 2-10 & 2-11 RINGS**

**List Price—\$100 each**

**FOR No. 4 RETAINER RING**

**List Price—\$55 each**

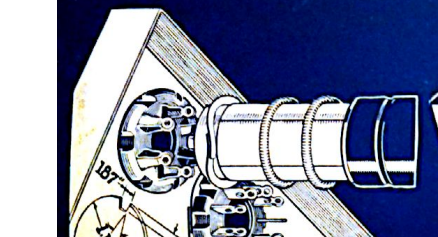
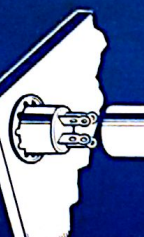
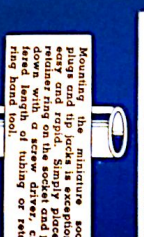
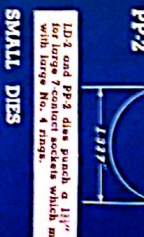
**FOR No. 11-12 RINGS**

**List Price—\$100 each**

These dies are used for the production of miniature sockets and plugs. They are used in the laboratory for the production of miniature sockets and plugs. The dies are used to produce sockets and plugs of various sizes and shapes, and are used in the laboratory for the production of miniature sockets and plugs.

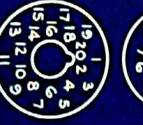
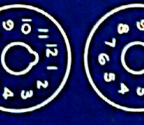
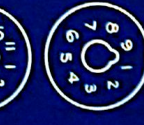
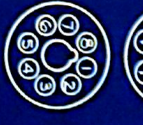
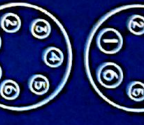
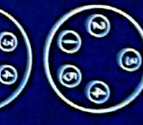
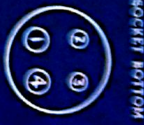
The Laboratory Punch and Die is a precision tool used for the production of miniature sockets and plugs. It is designed to produce sockets and plugs of various sizes and shapes, and is used in the laboratory for the production of miniature sockets and plugs. The punch and die are used to produce sockets and plugs of various sizes and shapes, and are used in the laboratory for the production of miniature sockets and plugs.

**HOLES PUNCHED BY AMPHENOL DIES**



LD-1 and PP-1 dies punch a 1/16" hole for 70 and 81 receptacles, and all but 7 large sockets and plugs. LD-2 and PP-2 dies punch a 1/8" hole for 11-12 receptacles, and all but 7 large sockets and plugs. LD-3 and PP-3 dies punch a 1/4" hole for large 70 and 81 receptacles, and all but 7 large sockets and plugs. LD-4 and PP-4 dies punch a 1/2" hole for large 70 and 81 receptacles, and all but 7 large sockets and plugs. LD-5 and PP-5 dies punch a 3/4" hole for large 70 and 81 receptacles, and all but 7 large sockets and plugs. LD-6 and PP-6 dies punch a 1" hole for large 70 and 81 receptacles, and all but 7 large sockets and plugs. LD-11 and PP-11 dies punch a 1 1/2" hole for large 70 and 81 receptacles, and all but 7 large sockets and plugs.

**STANDARD R. M. A. NUMBERING SOCKET MOTION**



**SOCKETS FOR EVERY PURPOSE**



**CONTACT NUMBERING**

Whenever it is physically possible to do so, Amphenol sockets have the contact numbering molded directly into the plastic. This numbering system is used in the production of sockets and plugs. The numbering system is used in the production of sockets and plugs. The numbering system is used in the production of sockets and plugs.

**SOCKET MARKINGS**

Socket markings are used to identify sockets and plugs. They are used in the production of sockets and plugs. The socket markings are used in the production of sockets and plugs. The socket markings are used in the production of sockets and plugs.

**HIGH DIELECTRIC BLACK BAKELITE**

High dielectric black bakelite is used in the production of sockets and plugs. It is used in the production of sockets and plugs. The high dielectric black bakelite is used in the production of sockets and plugs. The high dielectric black bakelite is used in the production of sockets and plugs.

**Low-Loss Micro-filled Bakelite**

Low-loss micro-filled bakelite is used in the production of sockets and plugs. It is used in the production of sockets and plugs. The low-loss micro-filled bakelite is used in the production of sockets and plugs. The low-loss micro-filled bakelite is used in the production of sockets and plugs.



**GROUNDING LUGS**

Grounding lugs are used in the production of sockets and plugs. They are used in the production of sockets and plugs. The grounding lugs are used in the production of sockets and plugs. The grounding lugs are used in the production of sockets and plugs.

**MINIATURE SOCKETS**

Miniature sockets are used in the production of sockets and plugs. They are used in the production of sockets and plugs. The miniature sockets are used in the production of sockets and plugs. The miniature sockets are used in the production of sockets and plugs.

**REPLACEMENT SOCKETS**

Replacement sockets are used in the production of sockets and plugs. They are used in the production of sockets and plugs. The replacement sockets are used in the production of sockets and plugs. The replacement sockets are used in the production of sockets and plugs.

**COLORED SOCKETS**

Colored sockets are used in the production of sockets and plugs. They are used in the production of sockets and plugs. The colored sockets are used in the production of sockets and plugs. The colored sockets are used in the production of sockets and plugs.



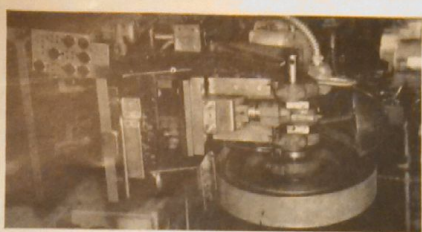
**CHASSIS LOCK**

**Economy**  
Sockets — Lower first cost. LABOR COST — All sockets assembled to chassis in one time in one operation.  
RIVETS — None required.  
TOOLS — Tooling and tooling maintainance is exceptionally low.

**CHASSIS LOCK**  
Sockets for high speed production. Economy. Lower first cost. Labor cost. All sockets assembled to chassis in one time in one operation. Rivets — None required. Tools — Tooling and tooling maintainance is exceptionally low.



**THIS PICTURE TELLS THE STORY**  
8 Sockets completely assembled to chassis  
*With One Stroke of the Punch Press*

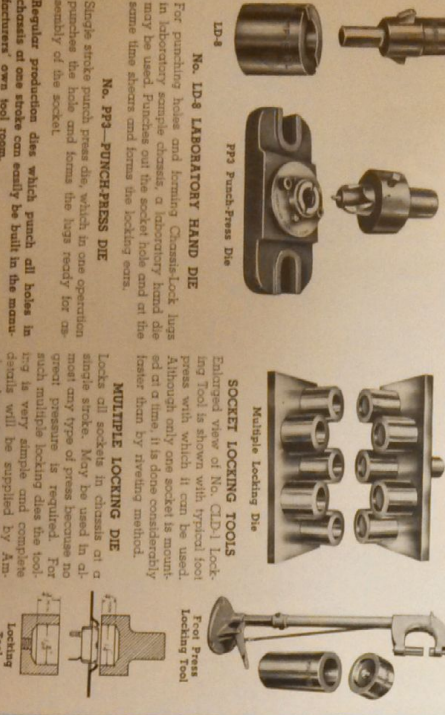


Major economies are being effected by radio manufacturers already using the new PATENTED high-speed Chassis Lock Sockets which require no rivets or eyelets for assembling to chassis. Locked firmly in place by jaws sheared up from chassis itself. Sockets may be assembled one at a time for limited production, using a foot press equipped with No. CLD-1 Locking Tool. For regular production of chassis all sockets are assembled by one stroke of punch press with specially designed Multiple Locking Tool.

There are no complications in switching from riveting type to Chassis Lock Sockets. There will be no confusion with present wiring layouts, because they take up less chassis room. AmpHENOL engineers will assist manufacturers in obtaining punched chassis, or will advise their tool maker on how to build correct dies.

Because of the anticipated demand for these new sockets, large stocks have been built up in Canada and in the United States, and prompt shipment can be obtained from AmpHENOL and their authorized licensees, producing in conformity with AmpHENOL specifications.

**Tooling for Chassis Lock is Economical**



Although Chassis Lock Sockets were designed entirely for the large volume they would effect in production and because the sockets themselves could be applied to a lower price, AmpHENOL quality is maintained throughout. Available in high dielectric black bakelite, micro-filled bakelite and polystyrene.

**AMPHENOL QUALITY MAINTAINED**

Country Motorola  
A large socket assembly press.

**LD-8**  
No. LD-8 LABORATORY HAND DIE  
For punching holes and forming Chassis-Lock Jaws in laboratory sample chassis of a laboratory hand die may be used. Punches and the laboratory hand die same time shears and forms the locking jaws.

**No. PP-3—PUNCH PRESS DIE**  
Single stroke punch press die, which in one operation punches the hole and forms the jaws ready for assembly of the socket.

Regular production dies which punch all holes in chassis of one stroke can easily be built in the manufacturer's own tool room.

**No. 88-8**  
OCTAL SOCKETS

**No. 88-1**  
LOKTAL SOCKETS

**No. 88-7P**  
R C A Miniature SOCKETS

**Multiple Locking Die**  
Sockets all sockets in chassis of a single stroke. May be used in almost any type of press because no great pressure is required. For such multiple locking die the tooling is very simple and complete details will be supplied by AmpHENOL engineers.

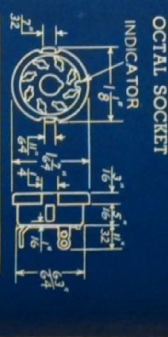
**SOCKET LOCKING TOOLS**  
Enlarged view of No. CLD-1 Locking Tool is shown with typical foot press with which it can be used. Although only one socket is mounted at a time, it is done considerably faster than by riveting method.

**MULTIPLE LOCKING DIE**  
Locks all sockets in chassis of a single stroke. May be used in almost any type of press because no great pressure is required. For such multiple locking die the tooling is very simple and complete details will be supplied by AmpHENOL engineers.

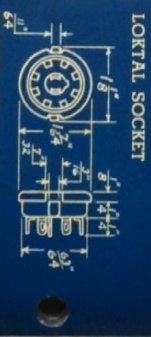
**Foot Press Locking Tool**



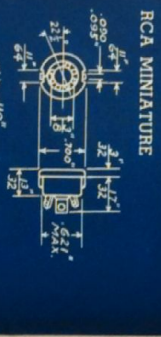
**CROSS SECTION VIEW OF MIP**



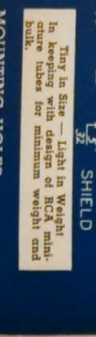
**OCTAL SOCKET**  
Requires less chassis area. Minimum chassis area required only 11/4", permitting the design of smaller units.



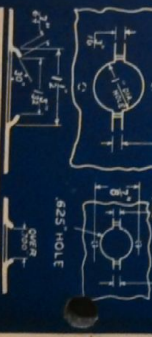
**LOKTAL SOCKET**  
Requires less chassis area. Minimum chassis area required only 1 1/4", permitting the design of smaller units.



**RCA MINIATURE**  
Requires less chassis area. Minimum chassis area required only 1 1/4", permitting the design of smaller units.



**BRASS SHIELD**  
They fit size — Light in Weight. In keeping with design of RCA miniature tubes for minimum weight and bulk.



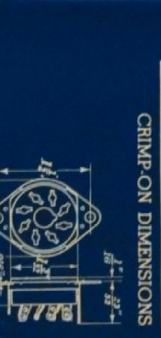
**MOUNTING HOLES**  
Diagrams are for illustrating type of mounting hole required. Drawing of mounting dies send for detailed blueprint.



**MIP DIMENSIONS**  
Factors making contacts. Were in four different plates. Mounting plate is circularly molded from steel, polished to prevent corrosion. 1/4" riveting centers. Avoidable molten from black bakelite or low-loss micro-filled bakelite. For electrical characteristics of both materials see page 17.



**CRIMP-ON SOCKET**  
Mounts in a standard 1 1/4" round hole. Minimum chassis area required only 1 1/4". Mounts from bottom or top.



**MIDGET OCTAL DIMENSIONS**  
The heart of the circuit. Ample anchoring plates for resistors and condensers, directly in the mounting plane.



**MOUNTING HOLES**  
Diagrams are for illustrating type of mounting hole required. Drawing of mounting dies send for detailed blueprint.

**MIP (MOLDED-IN-PLATE)**  
World's Strongest Socket

High Dielectric Black or Low-Loss Micro-Filled Bakelite  
Standard 1 1/4" Mounting Centers

Strongest socket in the world, yet compact in size, modern and attractive in appearance. Sturdy steel mounting plate, molded directly into the solid bakelite body, cannot come loose or vibrate, reducing possibility of tube microphonics. Mounting plate punched from steel, polished to prevent corrosion. 1/4" riveting centers. Avoidable molten from black bakelite or low-loss micro-filled bakelite. For electrical characteristics of both materials see page 17.

Of Importance to Manufacturers

Sturdy steel mounting plate cannot be damaged during riveting process. Breakage encountered when riveting laminated sockets entirely eliminated because of metal to metal free flow and contact for wiring and connecting resistors or condensers.

Contacts grip tube prongs firmly so that tubes will not pop out during shipment. AmpHENOL contacts retain their resiliency indefinitely.

As new tubes are announced, on AmpHENOL MIP socket before the tube is on the market. Your chassis layout remains uniform throughout the years. Keeping down soldering cost, permitting your chassis to be assembled in one step.

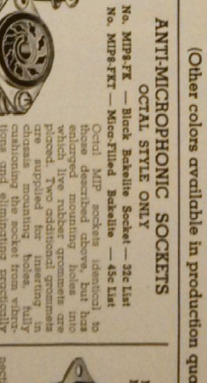
For connecting any MIP socket to a Mini-Microphone Socket, see page 40 for list of necessary parts.



**ANTI-MICROPHONIC SOCKETS**  
OCTAL STYLE ONLY

No. MIP-FT — Black Bakelite Sockets — 2c List  
No. MIP-FK — Micro-Filled Bakelite — 15c List

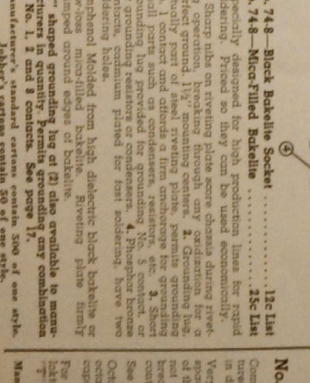
Oval MIP sockets identical to those described above, but have which live rubber grommets are placed. Two additional grommets are supplied for mounting in chassis. The rubber grommets cushioning the socket from vibration and eliminating microphonics. The rubber grommets are secured in place by screw holes on 1 1/4" centers. Supplied complete with cord socket, 1 1/4" hole with two mounting screws, nuts and washers.



**CRIMP-ON SOCKET**  
OCTAL STYLE ONLY



**COMPACT SOCKETS**  
1 1/4" Mounting Centers



**MOUNTING HOLES**  
Diagrams are for illustrating type of mounting hole required. Drawing of mounting dies send for detailed blueprint.

MICA-FILLED BAKELITE		RIFLE BAKELITE		
No.	List	No.	List	
MIP-AT	25c ea.	4-contact	MP4	15c ea.
MIP-PT	25c ea.	5-contact	MP5	15c ea.
MIP-ET	25c ea.	6-contact	MP6	15c ea.
MIP-ST	25c ea.	7-contact	MP7	15c ea.
MIP-LT	25c ea.	8-contact	MP8	15c ea.
MIP-NT	25c ea.	9-contact	MP9	15c ea.
MIP-OT	25c ea.	10-contact	MP10	15c ea.
MIP-IT	25c ea.	11-contact	MP11	20c ea.
MIP-UT	25c ea.	12-contact	MP12	25c ea.

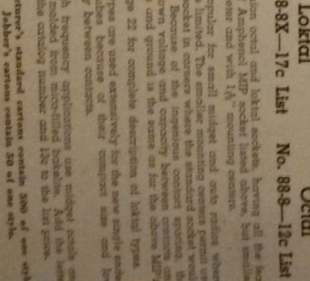
Manufacturer's standard chassis contains 500 of one style socket. Jobber's chassis contains 50 of one style socket. See page 40 for list of necessary parts.

**20-CONTACT SOCKET**  
No. MIP-20 — Black Bakelite Sockets — 55c List  
No. MIP-20F — Micro-Filled Bakelite — 65c List

A 20-contact MIP socket for Speaker Plug or Signal Cable Plug. Used on Signal Cable Plug or Signal Cable Plug. This socket with its own rubber grommets cushioning the socket from vibration and eliminating microphonics. The rubber grommets are secured in place by screw holes on 1 1/4" centers. Supplied complete with cord socket, 1 1/4" hole with two mounting screws, nuts and washers.



**CRIMP-ON SOCKET**  
OCTAL STYLE ONLY



**MOUNTING HOLES**  
Diagrams are for illustrating type of mounting hole required. Drawing of mounting dies send for detailed blueprint.







