

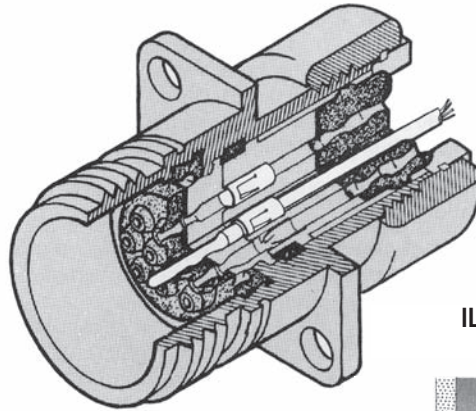
Pin Locking and Releasing Methods

ILL A

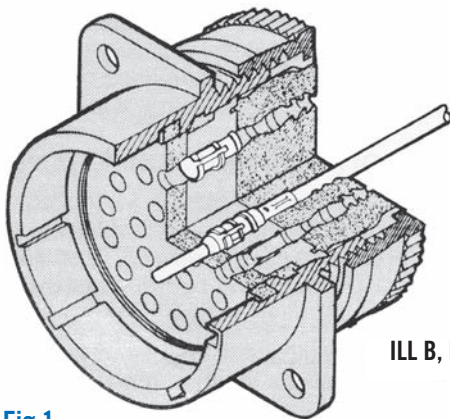
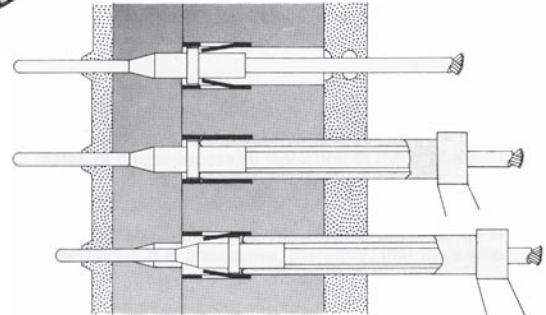
REAR RELEASE NAS 1599, MIL-C-38999 RETENTION METHOD

These clips are one-piece, stamped metal parts, rolled into a tubular shape with large tines deflected inwardly. These tines lock securely behind the shoulder of the contact, assuring positive contact retention. To remove, insert removal tool, firmly seat on shoulder of contact pushing locking tines back, and then pull on wire and tool together. This will pull the contact and tool out as a unit.

See Illustrations 2, 10, & 17 for service tools on pages 80, 81, & 83.



ILL A, FIG 1



ILL B, FIG 1

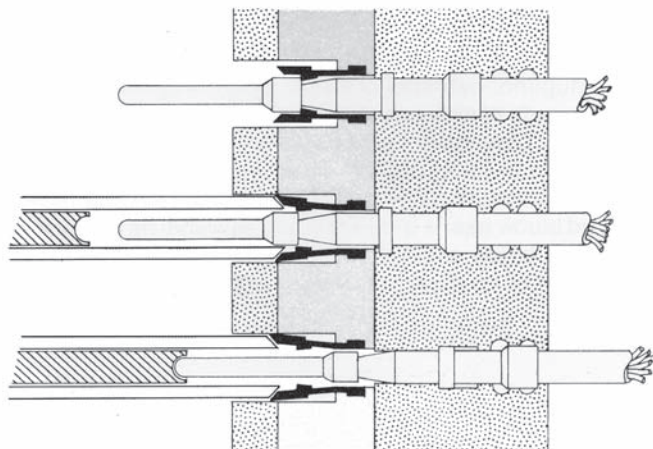
ILL B

Front release used in MIL-C-5015, MIL-C-26482, 26500 and 26636 type connectors for service tools.

See illustrations: 5 & 6 for removal and 2, 26, & 27 for installation of contacts on pages 80 & 86.

ILL B, Fig 1

MIL-C-26482, 26500, 26636 & 5015 cutaway front release.



A. Contact in "locked" position.

B. Tool probe shown opening retaining clip.

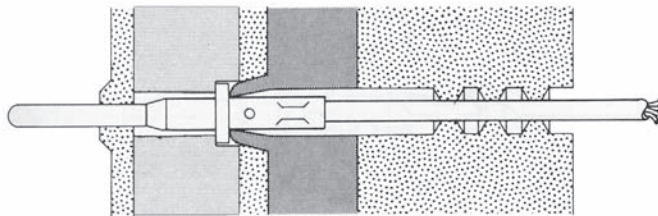
C. While clip is open, plunger moves contact out of the rear of connector.

ILL C

GANG RETENTION MIL-C-81511, SERIES 1 & 2

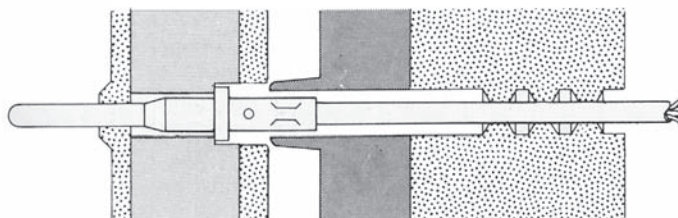
Using a rear locking screw, the retention plate may be “locked” by compressing it to the dielectric, (fig. 1) or “unlocked” by backing the nut out, releasing the locking plate. In an unlocked position (fig. 2), contacts may be inserted or removed with proper tooling.

See tooling illustrations 3 & 7 for removal and illustration 4 for insertion on pages 80 & 81.

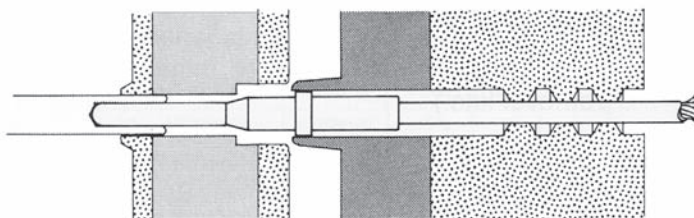


ILL C, FIG 1 Locked

LOCKING PLATE



ILL C, FIG 2 Unlocked

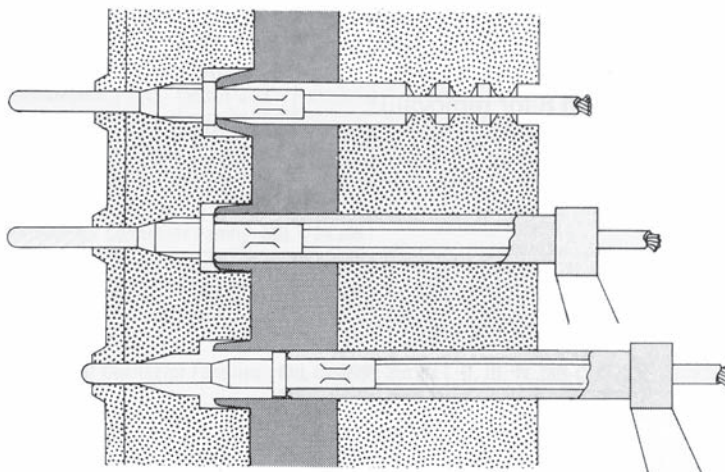


ILL C, FIG 3 Contact being removed.

ILL D

MIL-C-81511, SERIES 3 & 4

Rear release connectors using molded dielectric locking clips. These contacts are removed by using a rear removal tool. See tool illustrations 10 & 30 for removal and illustrations 2 & 30 for insertion. See pages 80, 81, & 86.

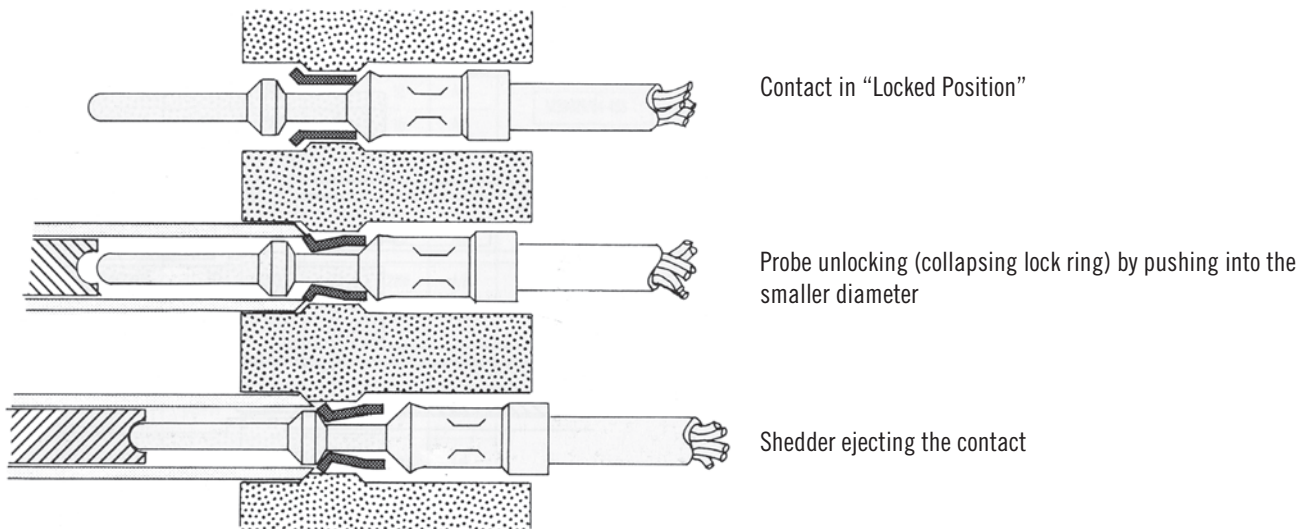


Pin Locking and Releasing Methods

ILL E

FRONT RELEASE

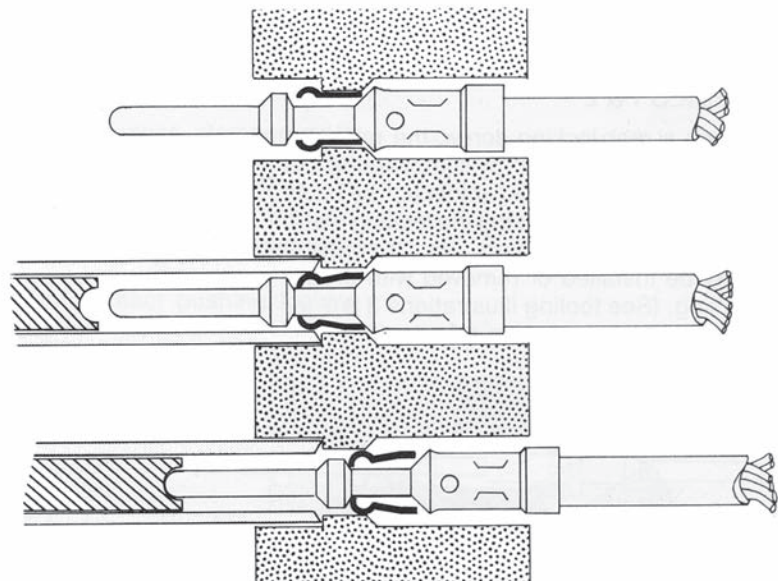
This locking mechanism is carried on the contact. It is pushed into the small diameter of the dielectric, collapsing the locking clip and permitting the contact to be removed. See tool illustration 8 on page 81. This locking method is common with Hughes Aircraft in sizes 22, 20, & 16.



ILL F

FRONT RELEASE CONNECTORS

Similar to Hughes locking clips, these are found in some Winchester connectors. The clip is expanded in a "locked" position. To remove contact, insert tool, probe will collapse the clip and unlock the contact. The shedder (plunger) will follow through ejecting the contact. For contact insertion see tool illustrations 1 & 2 on page 80, and illustration 8 for removal on page 81.

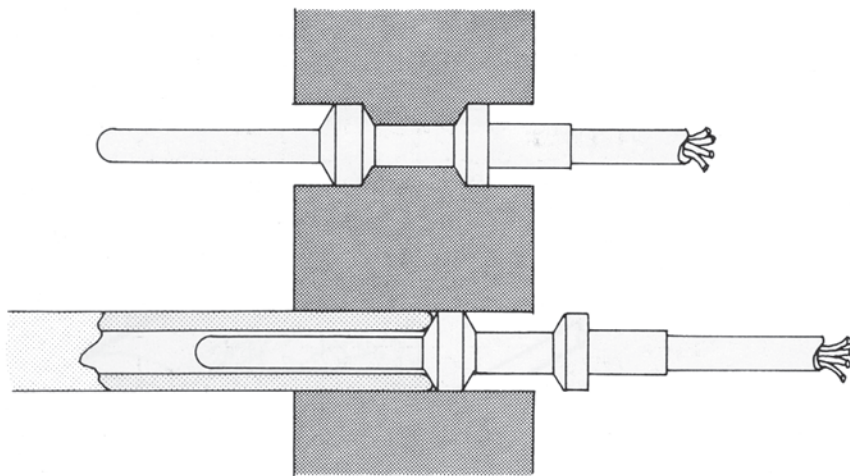


ILL G

INTERFERENCE LOCK CONNECTORS

Used by Cannon, Bendix, and Amphenol, the contacts are inserted and removed by force using the proper tooling.

See tool illustrations 12 and 13 for insertion tools and illustrations 14 & 15 for insertion/removal kits on page 82.



ILL H

**FRONT RELEASE—
WINCHESTER, AMP
AND ELCO CONNECTORS**

The contacts may be held in by a locking clip or spear action. Some contacts of this nature are machined with a locking clip attached, while others are stamped with the spur-lock made into them.

