

BREECH-LOK™ CONNECTOR USER INSTRUCTION SHEET

**G&H
Technology,
Inc.**

TO MATE CONNECTOR:

See illustration 1.

Before mating the connector, make sure that the red band at rear of plug is completely visible. If not visible, position plug so that front of plug is toward you, hold the backshell, and rotate plug coupling ring clockwise until red band is completely visible, an audible click is heard, and master keyways are aligned.

See illustration 2.

Hold plug assembly by backshell and align plug keyway indicator with receptacle key indicator.

See illustration 3.

Push plug forward onto receptacle as far as possible. Then rotate plug coupling ring clockwise (90°) until an audible click is heard and red band disappears. Connectors are now FULLY MATED.

VERIFICATION See illustration 4.

Make sure red band is not visible and plug keyway indicator is lined-up with full-mate indicator. Note: If receptacle is rear panel mounted, full-mate indicator may be marked on face of panel.

TO UNMATE CONNECTOR:

Rotate plug coupling ring counter-clockwise (90°), then pull the plug straight back. Do not maintain counter-clockwise torque on plug coupling ring while pulling connector apart.

CRIMPING CONTACTS TO WIRE: See table 1.

Strip the wire as shown in table 1. Select crimp tool and positioner for the contact to be crimped. Adjust the crimp tool to the setting indicated on the positioner. Place the contact in the tool, insert the wire and crimp.

INSTALLING & REMOVING CONTACTS:

Correct installation of the pin or socket in the connector seal is important to connector performance. Inspect the contact insertion/removal tool to be sure it has no sharp edges or burrs, and that it is the correct size and type (refer to table 1).

Slip insertion/removal tool over contact, feeding wire into slot in tool. Gently work contact down into the seal. Do not force or twist. Continue insertion until contact is fully seated. Pull-test each contact to verify seating. Install sealing plugs in all unwired cavities.

To remove contacts use the white tip of the tool, lubricated with isopropyl alcohol. Gently work tool down into seal around contact and wire. Do not twist the tool. Feed wire from contact up along slot in tool until tool is fully inserted. Holding wire against tool shaft, withdraw tool with wire and contact.

ATTACHING REAR ACCESSORY HARDWARE:

These connectors are provided with METRIC rear accessory threads. Do not attempt to couple accessories having UNEF threads.

After the threads are partially engaged, rotate the rear accessory to the required position, and engage it with the teeth on the rear of the connector. Then complete tightening of the accessory coupling nut. Plugs must be mated to receptacles in order to properly tighten the accessory nut.

TABLE 1

CONTACT SIZE	PIN CONTACT	BIN CODE*	SOCKET CONTACT	BIN CODE*	WIRE SIZES	INSULATION STRIP LENGTH (INCHES)	INSERTION/REMOVAL TOOL	CRIMPING TOOLS	SEALING PLUGS
22D	MS27493-22D	360	MS27490-22D	348	22-24-26-28	.160 - .190	MS27534-22D	MS22520/2 or /7	MS27488-22D
20	MS27493-20	363	MS27490-20	351	20-22-24	.230 - .260	MS27534-20	MS22520/1, /2 or /7	MS27488-20
16	MS27493-16	364	MS27490-16	352	16-18-20	.230 - .260	MS27534-16	MS22520/1 or /7	MS27488-16
12	MS27493-12	365	MS27490-12	353	12-14	.230 - .260	MS27534-12	MS22520/1	MS27488-12

* Color code marked on contact crimp barrel.

WARRANTY

Each unit sold by us is warranted to be free from defects in material and workmanship under normal use and service, and is manufactured in accordance with the drawings and specifications called for on the order. Our obligation under this warranty is limited to the no-charge correction of any unit which proves to be defective in material or workmanship under normal use and service within ninety (90) days after delivery to the first user, provided the unit is returned to G & H Technology with transportation pre-paid.

If components other than those supplied by us are used in this unit, then this warranty is limited only to the components we supplied, and we assume no responsibility for the performance and/or reliability of the unit as a whole.

We are not liable for consequential or special damages resulting from the use of any of our products. This warranty is in lieu of all other warranties expressed or implied.

ILLUSTRATION NO. 1

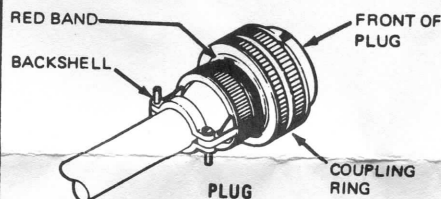


ILLUSTRATION NO. 2

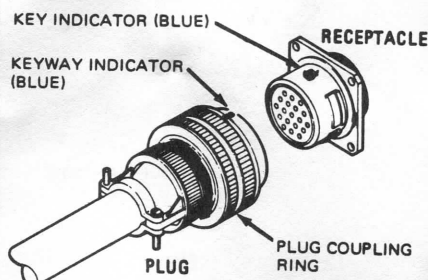


ILLUSTRATION NO. 3

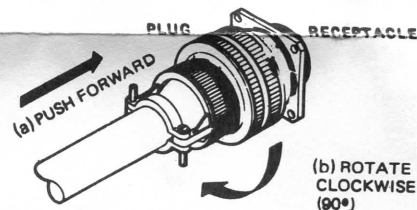


ILLUSTRATION NO. 4

