



TYPE 874-TOK TOOL KIT

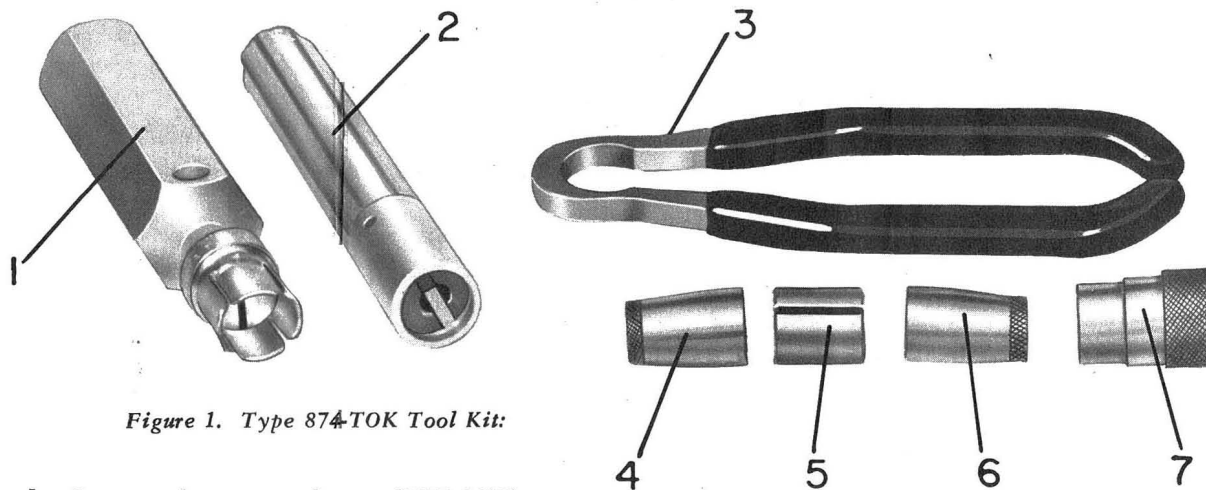


Figure 1. Type 874-TOK Tool Kit:

- 1 Outer-conductor wrench (0874-2610)
- 2 Inner-conductor wrench (0874-2611)
- 3 Coupling-nut wrench (0874-6801)
- 4 Front-ring expander (red) (0874-6820)

- 5 Keeper for ring expanders (0874-6840)
- 6 Back-ring expander (green) (0874-6800)
- 7 Ring pusher (0874-6830)

INSTALLATION OF NONLOCKING CONNECTORS

- a. Cut and machine the inner connector rod and the outer conductor tube or prepare the cable according to instructions for the particular Type 874 Connector to be installed.
- b. Slide the coupling nut onto the tubing or cable.
- c. Slide the retaining ring onto the front ring expander (4).
- d. Place the ring expander (4) over the tubing or cable transition and slide the ring pusher (7) along the ring expander to push the ring into the groove in the tubular part.
- e. Insert the inner connector in the insulating bead and insert the assembly in the end of the inner connector wrench (2), observing alignment of keys and keyways. Thread the assembly into the rod or inner transition piece and tighten (about 4 in-lb torque). Remove the inner connector wrench from the assembly.
- f. Put the outer connector on the outer connector wrench (1) and install over both the insulator assembly and tubing or transition piece, observing the alignment of keys and keyways.
- g. Clamp the coupling nut wrench (3) onto the coupling nut. Hold the outer connector wrench (1) in place while tightening the coupling nut until it bottoms firmly (about 6 ft-lb torque).

INSTALLATION OF LOCKING CONNECTORS

- a. Cut and machine the inner connector rod and the outer conductor tube or prepare the cable according to instructions for the particular Type 874 Connector to be installed.
- b. Slide the locking nut and the coupling nut onto the tubing or cable.
- c. Slide one retaining ring onto the back-ring expander (6).
- d. Place the back-ring expander over the tubing or cable and slide the ring pusher (7) along the ring expander to push the ring into the back groove in the tubular part.
- e. Slide the second retaining ring onto the front-ring expander (4).
- f. Place the front-ring expander over the tubing or cable and slide the ring pusher (7) along the ring expander to push the retaining ring into the front groove on the tubular part.
- g. Insert the inner connector in the insulating bead and insert the assembly in the end of the inner connector wrench (2), observing alignment of keys and keyways. Thread the assembly into the rod or inner transition piece and tighten (about 4 in-lb torque). Remove the inner connector wrench from the assembly.

(Continued)



### Installation of Locking Connectors (Continued)

- h. Put the outer connector on the outer connector wrench (1) and install over both the insulating bead and tubing or transition piece, observing the alignment of keys and keyways.
- i. Clamp the coupling nut wrench (3) onto the

- coupling nut. Hold the outer connector wrench (1) in place while tightening the coupling nut until it bottoms firmly (about 6 ft-lb torque).
- j. Thread the locking nut onto the coupling nut.

#### TYPE 874 COAXIAL COMPONENTS

TYPE 874 CABLE CONNECTORS							
	CONNECTOR TYPE	CABLE	CABLE LOCKING	PANEL FLANGED	PANEL LOCKING	PANEL LOCKING RECESSED	
APPLICABLE CABLE TYPES	50-OHM	874-A2	-CA	-CLA	-PBA	-PLA	
		RG-8A/U					
		RG-9B/U					
		RG-10A/U					
		RG-87A/U					
	NON-50-OHM	RG-116/U					
		RG-156/U					
		RG-165/U					
		RG-166/U					
		RG-213/U					
	50-OHM	RG-214/U					
		RG-215/U					
		RG-225/U	-C8A	-CL8A	-P8A	-PL8A	-PRL8A
		RG-227/U					
		RG-11A/U					
NON-50-OHM	RG-12A/U						
	RG-13A/U						
	RG-63B/U						
	RG-79B/U						
	RG-89/U						
50-OHM	RG-144/U						
	RG-146/U						
	RG-149/U						
	RG-216/U						
	874-A3						
50-OHM	RG-29/U						
	RG-55/U						
	(Series)						
	RG-58/U	-C58A	-CL58A	-P58A	-PL58A	-PRL58A	
	(Series)						
NON-50-OHM	RG-141A/U						
	RG-142A/U						
	RG-159/U						
	RG-223/U						
	RG-59/U						
50-OHM	RG-62/U						
	(Series)						
	RG-71B/U	-C62A	-CL62A	-P62A	-PL62A	-PRL62A	
	RG-140/U						
	RG-210/U						
NON-50-OHM	RG-174/U						
	RG-188/U						
	RG-316/U	-C174A	-CL174A	-P174A	-PL174A	-PRL174A	
	RG-161/U						
	RG-187/U						
50-OHM	RG-179/U						

Example: For a locking cable connector for RG-8A/U, order Type 874-CL8A.

TYPE 874 ADAPTORS	
TO TYPE	874
BNC plug	QBJA
BNC jack	QBJL* QBPA
C plug	QCJA QCJL* QCP
C jack	
HN plug	QHJA
HN jack	QHPA
LC plug	QLJA
LC jack	QLPA
LT plug	QLTJ
LT jack	QLPT
Microdot plug	QMDJ
Microdot jack	QMDJL* QMDP
N plug	QNJA
N jack	QNJL* QNP QNPL*
OSM/BRM plug	QMMJ
OSM/BRM jack	QMMJL* QMMF QMMPL*
SC (Sandia) plug	QSCJ
SC (Sandia) jack	QSCJL* QSCP
TNC plug	QTNJ
TNC jack	QTNJL* QTNP
UHF plug	QUJ
UHF jack	QUJL* QUP
UHF 7/8-in.	QU1A
UHF 50-Ω 1-5/8-in.	QU2
UHF Air Line 3-1/8-in.	QU3A

\*Locking Type 874 Connector  
Example: To connect Type 874 to a type N jack, order Type 874-QNP.

CONNECTOR ASSEMBLY TOOLS	
TYPE 874-	FUNCTION
TOK	Tool Kit
TC58	Crimping Tool
TO8	Crimping Tool

OTHER COAXIAL ELEMENTS			
TYPE 874	TYPE 874	TYPE 874	TYPE 874
A2	50 Ω cable (low loss)	ML	component mount
A3	50 Ω cable	MB	coupling probe
D20L, D50L	20-, 50-cm adjustable stubs	MR, MRL	mixer-rectifier
EL, EL-L	90° e.l.	R20A, R20LA	patch cord, double shield
F185L	185-Mc/s low-pass filter	R22A, R22LA	patch cord, double shield
F500L	500-Mc/s low-pass filter	R33, R34	patch cord, single shield
F1000L	1000-Mc/s low-pass filter	T, TL	tee
F2000L	2000-Mc/s low-pass filter	TPD, TPDL	power divider
F4000L	4000-Mc/s low-pass filter	U	U-line section
FBL	bias insertion unit	UBL	balun
G3, G3L, G6, G6L	3-, 6-, 10-, and 20-dB attenuators	VCL	variable capacitor
G10, G10L		VI	voltmeter indicator
G20, G20L		VQ, VQL	voltmeter detector
GAL	adjustable attenuator	VR, VRL	voltmeter rectifier
JR	rotary joint	W100	100-Ω termination
K, KL	coupling capacitor	W200	200-Ω termination
L10, L10L	10-, 20-, and 30-cm rigid air lines	W50B, W50BL	50-Ω termination
L20, L20L		WN, WN3	short-circuit terminations
L30, L30L		WO, WO3	open-circuit terminations
LAL	33-58 cm adjustable line	X	insertion unit
LK10L, LK20L	constant-Z adjustable lines	XL	series inductor
LR	radiating line	Y	cliplock
LTL	trombone constant-Z line	Z	stand

MISCELLANEOUS COAXIAL CONNECTORS		
CONNECTOR TYPE	TYPE NO.	USED WITH
Basic	874-B	50-ohm Air Line
Basic Locking	874-BBL	50-ohm Air Line
Panel Locking	874-PLT	Wire Lead
Panel Locking Recessed	874-PRLT	Wire Lead
Panel Locking Feedthrough	874-PFL	Type 874 Patch Cords

L suffix indicates locking Type 874 Connector.

FOR COMPLETE DETAILS, REFER TO THE GENERAL RADIO CATALOG.

