

TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL
TOOLS LIST
FOR

ELECTRONIC EQUIPMENT CONFIGURATIONS
ARMY MODEL AH -1G, AH - 1Q, AH- 1S(MOD),
AND TH-1G HELICOPTERS
(AH 1S(MOD) SAME AS AH- 1Q)

HEADQUARTERS,DEPARTMENTOF THE ARMY

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ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS
FOR
ELECTRONIC EQUIPMENT CONFIGURATIONS
ARMY MODEL AH-1G, AH- 1Q, AH- 1S(MOD) AND TH- 1G
HELICOPTERS
(AH- 1S(MOD) SAME AS AH- 1Q)
Current as of 3 October 1977

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SECTION I.

INTRODUCTION

1. Scope

This manual lists spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of organizational maintenance of the Electronic Equipment Configurations, Army Model AH-1G, AH-1Q, and TH-1G Helicopters. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

2. General

This Repair Parts and Special Tools List is divided into the following sections:

a. *Section II. Repair Parts List.* A list of spares and repair parts authorized for use in the performance of maintenance. The list also includes part which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in numeric sequence, with the parts in each group listed in figure and item number sequence.

b. *Section III Special Tools List.* Not applicable.

c. *Section IV National Stock Number and Part Number Index.* A list, in National item identification number (NIIN) sequence, of all National stock numbers (NSN) appearing in the listings, followed by a list, in alphameric sequence, of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

3. Explanation of Columns

a. *Illustration.* This column is divided as follows:

(1) *Figure number.* Indicates the figure number of the illustration on which the item is shown.

(2) *Item number.* The number used to identify item called out in the illustration.

b. *Source, Maintenance, and Recoverability (SMR) Codes.*

(1) *Source code.* Source codes indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

*Code**Definition*

PA	Item procured and stocked for anticipated or known usage.
PD	Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or outfittings. Not subject to automatic replenishment.
XD	A support item that is not stocked. When required, item will be procured through normal supply channels.

NOTE

Cannibalization or salvage may be used as a source of supply for any items source coded above except those coded XA and air craft support items as restricted by AR 700-42.

(2) *Maintenance code.* Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code format as follows:

(a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance:

<i>Code</i>	<i>Application/Explanation</i>
O	Support item is removed, replaced, used at the organizational level.

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes:

Code	Application/Explanation
O	The lowest maintenance level capable of complete repair of the support item is the organizational level.
F	- The lowest maintenance level capable of complete repair of the support item is the direct support level.
H	- The lowest maintenance level capable of complete repair of the support item is the general support level.
D	- The lowest maintenance level capable of complete repair of the support item is the depot level.
Z	Nonreparable. No repair is authorized.

(3) *Recoverability code.* Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

Recoverability codes	Definition
Z	- Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
O	- Reparable item. When uneconomically reparable, condemn and dispose at organizational level.
F	- Reparable item. When uneconomically reparable, condemn and dispose at the direct support level.
H	- Reparable item. When uneconomically reparable, condemn and dispose at the general support level.
D	Reparable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.
L--	Reparable item. Repair, condemnation, and disposal not authorized below depot/specialized repair activity level.

c. National Stock Number. Indicates the National stock number assigned to the item and will be used for requisitioning purposes.

d. Part Number. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

NOTE

When a stock numbered item is requisitioned, the repair part received may have a different part number than the part being replaced.

e Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

f Description. Indicates the Federal item name and, if required, a minimum description to identify the item. When the part to be used differs between serial numbers of the same model, the effective serial numbers are shown as the last line of the description.

g. Unit of Measure (U/M). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr, etc). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.

h. Quantity Incorporated in Unit Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly.

4. Special Information

a Usable on codes are shown in the description column. Uncoded items are applicable to all models. Identification of the usable on codes used in this publication are:

Code	USED on
2EG	AH-1G
5CU	TH-1G
5CV	AH-1Q

b. The illustrations in this manual are identical to those published in TM 11- 1520 -221- 34P. Only those parts assigned the third position SMR maintenance code "C" or "O" are listed in the tabular listing; therefore, there may be a break in the item number sequence. Only illustrations containing organizational authorized items appear in this manual.

c. The following publications pertain to the Electronic Equipment Configurations Army Model AH-1G, AH-1Q, and TH-1G Helicopters and its components:

- TM 11-1520-221-20, Electronic Equipment Configurations, Army Model AH-1G Helicopter
- TM 11-5810-244-1, Communications Security Equipment TSEC/KY-28
- TM 11-5810-244-12P, Communications Security Equipment TSEC/KY-28
- (C) TM 11-5810-244-15, Communications Security Equipment TSEC/KY-28(U)
- (O) TM 11-5810-285-12, Identification Friend or Foe Transponder System using KIT-1A/TSEC

TM 11-5820-518-20, Radio Set AN/ ARC-51X and AN/ARC-51BX
 TM 11-5820-518-20P, Radio Set AN/ ARC-51X; Radio Set AN/ ARC-51BX
 TM 11-5820-670-12, Radio Set AN/ ARC-131
 TM 11-5820-670-20P, Radio Set AN/ ARC-131
 TM 11-5821-244-12, Radio Set AN/ ARC-54
 TM 11-5821-244-20P, Radio Set AN/ ARC-54
 TM 11-5821-277-20P, Radio Sets AN/ ARC-134, AN/ ARC-134A, and AN/ ARC-134B
 TM 11-5821-277-20P, Radio Sets AN/ ARC-134 and AN/ ARC-134A
 TM 11-5821-284-20, Blade Antenna AS-2285/ARC
 TM 11-5826-225-12, Direction Finder Set AN/ARN-83
 TM 11-5831-201-20, Control, Intercommunication Set C-1611D/ AIC and Discriminator, Discrete Signal MD-736/A
 TM 11-5831-201-20P, Control, Intercommunication Set C-1611D/ AIC and Discriminator, Discrete Signal MD-736/ A
 TM 11-5841-268-25, Control, Transponder Set C-6280(P)/ APX, C-6280A(P)/ APX, C-6717/APX, and C-7483/ APX
 TM 11-5841-268-25P, Control, Transponder Sets C-6280(P)/ APX and C-6280A(P)/ APX
 TM 11-5895-217-12, Transponder Sets AN/ APX-44 and AN/ APX-44B
 TM 11-5895-490-2, Receiver-Transmitters, RadioRT-859/ APX-72 and RT-859A/ APX-72 and Mountings MT-3809/APX-72 and MT-3948/APX-72
 TM 11-5895-490-20P, Receiver-Transmitter, Radio RT-859/ APX-72 and Mountings MT-3809/APX-72 and MT-3948/ APX-72
 TM 11-5895-555-24, Control Indicator C-8157/ARC and Mounting MT-3802/ARC
 TM 11-5895-555-25P, Control, Indicator C-8157/ARC, and Mounting MT-3802/ARC
 TM 11-6110-211-15, Amplifier, Electronic Control AM - 3209/ ASN
 TM 11 -6110-211-24P, Amplifier, Electronic Control AM-3209/ASN

TM II-1520-221-20P
 TM 11 -6125- 220-12, Motor-Generators PU- 543/ A, PU- 543A/ A, PU-543B/A, and PU-543C/ A
 TM 11-6125-246-25, Motor-Generator PU-542/ A
 TM 11-6605-202-12, Gyromagnetic Compass Set AN/ ASN-43
 TM 11-6605-202-25P, Gyromagnetic Compass Set AN/ ASN-43

5. How to Locate Repair Parts

a. When National stock number or part number is unknown.

(1) *First.* Using the table of contents, determine the functional group within which the item belongs. This is necessary since illustrations are prepared for functional groups and listings are divided into the same groups.

(2) *Second.* Find the illustration covering the functional group to which the item belongs.

(3) *Third.* Identify the item on the illustration and note the illustration figure and item number of the item.

(4) *Fourth.* Using the Repair Parts Listing, find the figure and item number noted on the illustration.

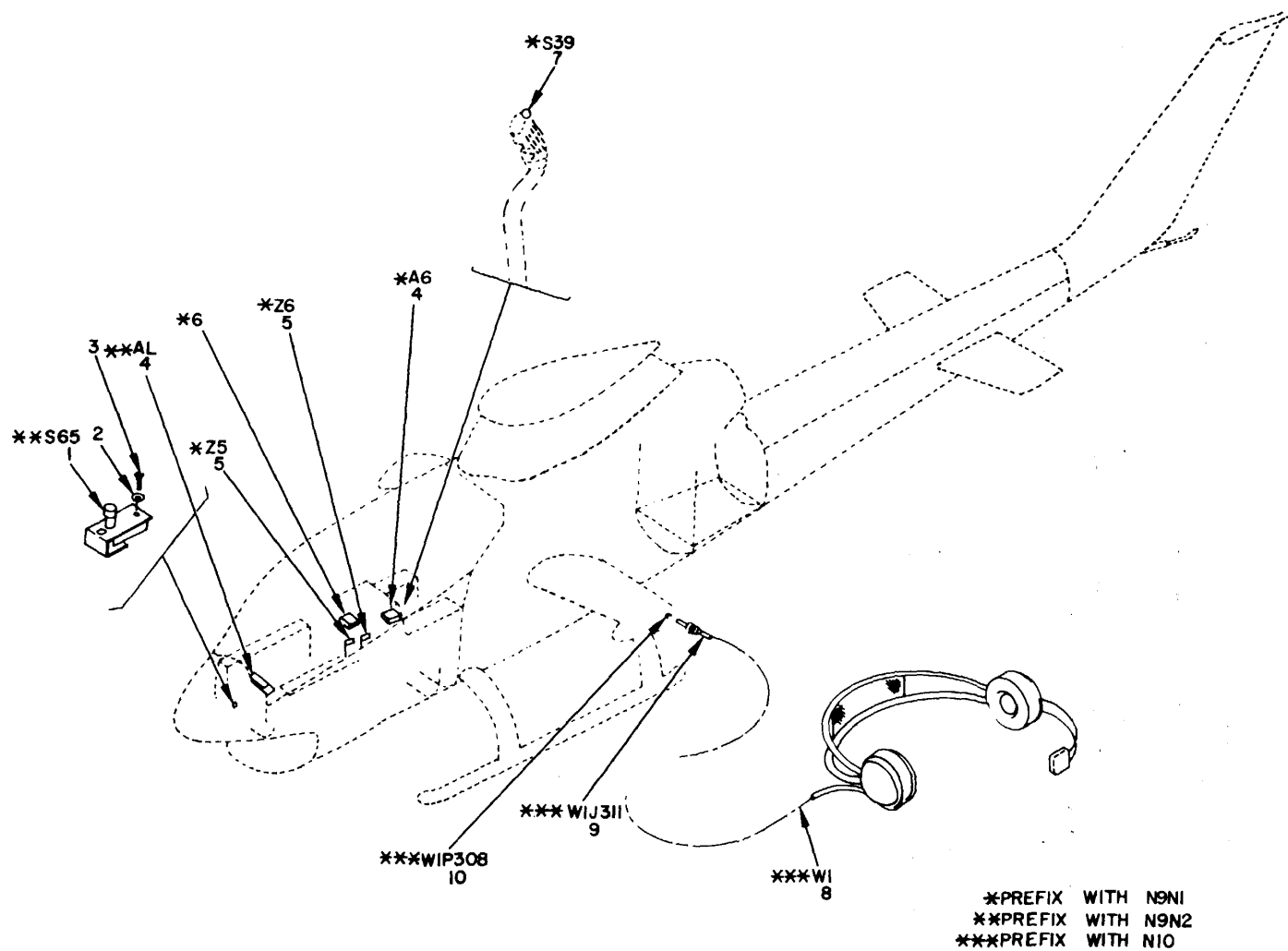
b. When Nation stock number or part number is known.

(1) *First.* Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in NIIN sequence followed by a list of part numbers in alphameric sequence, cross-referenced to the illustration figure number and item number.

(2) *Second.* After finding the figure and item number, local the figure and item number in the repair parts list.

6. Abbreviations

Not applicable.



EL0E000

Figure 1. Interphone and Audio System, Ground Crew ICS

SECTION II

TM11-1520-221-20P

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6) DESCRIPTION	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	USABLE ON CODE	U/M	QTY INC IN UNIT
						GROUP 01 INTERPHONE AND AUDIO SYSTEM		
1	1	PAOZZ	5930-00-950-9145	MS25039-1	96906	SWITCH, FOOT USED ON 67-15534 THRU 67-15869..... 2EG,5CU	EA	1
1	1	PAOZZ	5930-00-356-5579	205-075-520-1	97499	SWITCH, FOOT USED ON 68-I5000 THRU 69-16447,70-15936 AND SUE	EA	1
1	2	PAOZZ	5310-00-187-2398	AN960P06L	88044	WASHER	EA	2
1	3	XDOZZ		AN520--6R8	88044	SCREW	EA	2
1	4	PDODD	5831-00-933-9822	C1611IA1C	80058	CONTROL PANEL, PILOTS INTERPHONE2 EG5CU	EA	2
1	5	PDODD	5821-00-937-7633	MD736A	80058	DISCRIMINATOR, DISCRETE SIGNAL	EA	2
1	6	PDOOO	5999-00-937-2603	209-075-235-1	97499	NETWORK ASSEMBLY USED ON 66-15249 THRU 67-15869..... 2EG, 5CU	EA	1
1	6	PDOOO	1560-00-133-9320	209-075-283-1	97499	NETWORK ASSEMBLY USED ON 68-15000 THRU 69-16447.....	EA	1
1	6	PDOOO	5826-00-267-6796	209-075-606-1	97499	NETWORK ASSEMBLY USED ON 70-15936 AND SUB	EA	1
1	7	PAOOO	5930-01-009-4006	PM21216	95712	MICROPHONE, SWITCH, CYCLIC	EA	1
						GROUP 0101I GROUND CREW ICS		
1	8	XDOOO		209-075-413-3	97499	CABLE ASSEMBLY	EA	2
1	9	PAOZZ	5935-00-553-9352	U94U	81349	CONNECTOR.....	EA	1
1	10	PAOZZ	5935-00-715-2756	MS3126F10-6S	96906	CONNECTOR.....	EA	1
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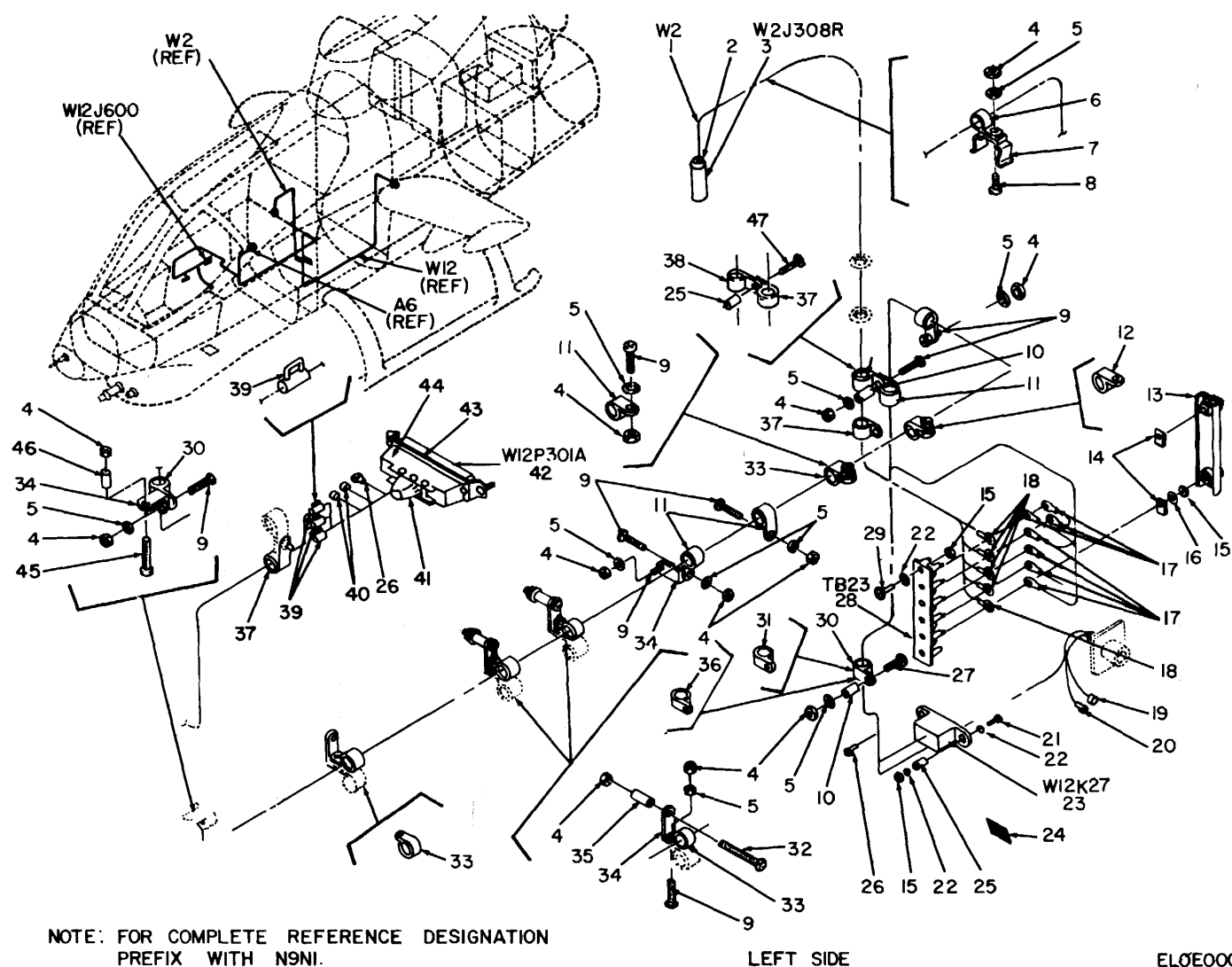


Figure 2. Control, ICS C-1611()/AIC, Pilot's ICS Cable Assemblies N9N1W2 and N9N1W12 (Sheet 1 of 2).

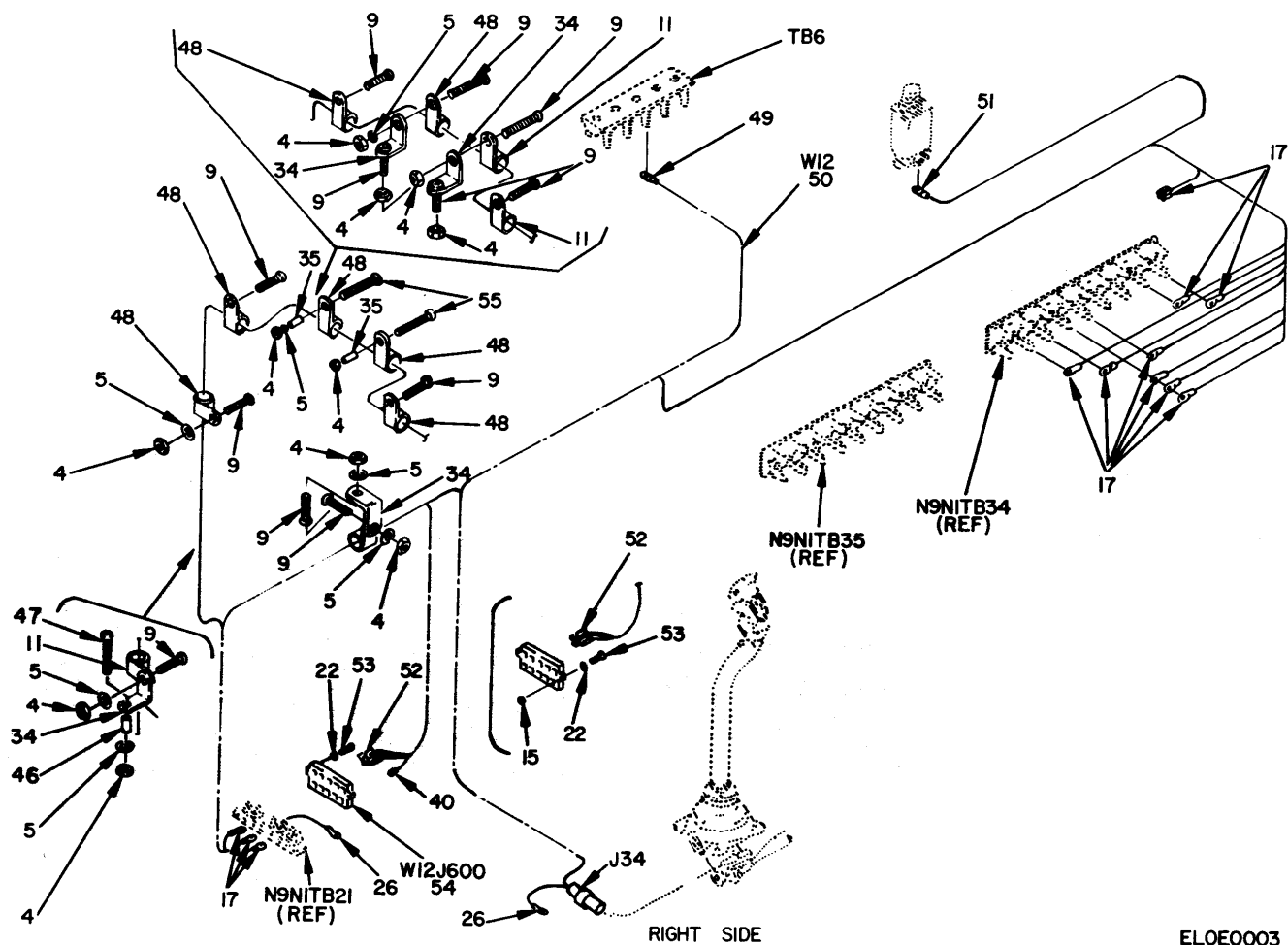


Figure 2. Control, ICS-C1611()/AIC, Pilot's ICS Cable Assemblies N9N1W2 and N9N1W12 (Sheet 2 of 2)