

UPKEEP WORK UNITS
CARRIER PLUG-IN EQUIPMENT — BENCH REPAIR
FORM E-4409

1. GENERAL

1.01 This section describes the method of counting and reporting plant items using Form E-4409 for the purpose of determining the number of work units for the repair at designated maintenance or servicing centers of carrier plug-in units of equipment.

1.02 This section is reissued to renumber it into the Plant Series and to cover a revised Form E-4409 (5-64) which refers to the new Plant Series number. The revised form will not be available until present stock of Form E-4409 (1-63) is exhausted. Marginal arrows have been omitted in this process.

1.03 Form E-4409, Upkeep Work Units—Bench Repair of Carrier Plug-In Equipment, *should not be used* where such equipment is returned to the Western Electric Company for repair or where the repairs are charged to "Shop Repairs." (Except "L" Amplifiers.)

1.04 Section 015-100-010 covers general instructions applicable to all upkeep work unit forms. Section 015-000-000 contains a list of the sections describing the individual forms.

1.05 The work unit factors are based on the number of plug-in units of equipment in service or maintained ready for service in the territory for which the repair center is responsible for the bench work. Plant items therefore *are counted for the entire repair territory.*

2. DESCRIPTION OF FORM E-4409

2.01 *Column A: No. of Plant Items: Other Co.:*
This column is for showing plant items on which work is performed for another company, when required by local instructions.

2.02 *Column B: No. of Plant Items: Total:*
This column is for showing total plant items on which work is performed.

2.03 *Column C: W.U. per Plant Item:* These are the work unit factors which, when multiplied by the plant items, give the number of work units.

2.04 *Column D: Work Units per Qtr.: Other Co.:* Enter for each kind of plant item the result obtained by multiplying the number of plant items in Column A by the work unit factor in Column C.

2.05 *Column E: Work Units per Qtr.: Total:*
Enter for each kind of plant item the result obtained by multiplying the number of plant items in Column B by the work unit factor in Column C. Computations should be expressed to the nearest whole number.

L-1 Carrier

2.06 *Line 1: H.F. Line Amplifier:* Covers testing of the plug-in type amplifiers, and packing and shipping to Western Electric Company as required for repairs.

Count one plant item for each transmitting, receiving, flat gain and auxiliary amplifier.

2.07 *Line 2: H.F. Line Regulator:* Covers testing and repairing H.F. line regulators (manual and automatic types).

Count one plant item for each regulator.

L-3 Carrier

2.08 *Line 3: H.F. Line Amplifier:* Covers testing and minor repairs of plug-in type amplifiers, and packing and shipping to Western Electric Company as required for repairs.

Count one plant item for each line amplifier and each flat gain amplifier.

2.09 *Line 4: H.F. Line Regulator:* Covers testing and repairing H.F. line regulators (automatic and thermometer types).

Count one plant item for each regulator.

M Carrier

2.10 Line 5: M Carrier Terminal (per Chan.): Covers testing and repairing M carrier terminal equipment.

Count one plant item for each M carrier channel terminal.

N Carrier

2.11 Line 6: Repeater: Covers testing and repairing N carrier repeaters.

Count one plant item for each repeater.

2.12 Line 7: Channel Unit: Covers testing and repairing N carrier group and channel unit equipment.

Count one plant item for each channel unit.

O Carrier

2.13 Line 8: Repeater: Covers testing and repairing O carrier repeaters.

Count one plant item for each repeater.

2.14 Line 9: Channel Unit: Covers testing and repairing O carrier group and channel unit equipment.

Count one plant item for each channel unit.

ON Carrier

2.15 Line 10: Repeater: Covers testing and repairing ON repeaters.

Count one plant item for each repeater.

2.16 Line 11: Channel Unit: Covers testing and repairing ON group, group and junction and channel unit equipment.

Count one plant item for each channel unit.

Other Type Carrier

2.17 Line 12: Repeater: Covers testing and repairing carrier repeater plug-in equipment not covered above.

Count one plant item for each repeater.

2.18 Line 13: Terminal (per Channel): Covers testing and repairing carrier terminal plug-in equipment not covered above.

Count one plant item for each channel terminal.

2.19 Line 14: Total Work Units: Equals sum of Lines 1 through 13.

2.20 Line 15: Upkeep Hours on this Equipment Charged to: Enter the subaccount to which upkeep hours for repairs of equipment on this form are charged. Use one sheet for each subaccount.

2.21 City-Office, District, Division, Company-Area, Qtr. Ending: Complete form by filling in office, district, division, company and area. In quarter ending, show either March 31, June 30, September 30 or December 31, and the year.

**UPKEEP WORK UNITS
CARRIER PLUG-IN EQUIPMENT - BENCH REPAIR**

PLANT ITEM	A	B	C	D	E
	NO. OF PLANT ITEMS		W.U. PER PLANT ITEM	WORK UNITS PER QTR.	
	OTHER CO.	TOTAL		OTHER CO. (A x C)	TOTAL (B x C)
L-1 CARRIER					
1 H.F. LINE AMPLIFIER			.36		
2 H.F. LINE REGULATOR			.76		
L-3 CARRIER					
3 H.F. LINE AMPLIFIER			1.56		
4 H.F. LINE REGULATOR			1.56		
M CARRIER					
5 M CARRIER TERMINAL (PER CHAN.)			.52		
N CARRIER					
6 REPEATER			1.04		
7 CHANNEL UNIT			.52		
O CARRIER					
8 REPEATER			1.04		
9 CHANNEL UNIT			.52		
ON CARRIER					
10 REPEATER			1.04		
11 CHANNEL UNIT			.52		
OTHER TYPE CARRIER					
12 REPEATER			1.04		
13 TERMINAL (PER CHAN.)			.52		
14 TOTAL WORK UNITS	(LINES 1 THRU 13)		xx		

15 UPKEEP HOURS ON THIS EQUIPMENT CHARGED TO

ACCOUNT

CITY-OFFICE	
DISTRICT	
DIVISION	
COMPANY-AREA	
QTR. ENDING	