

**UPKEEP WORK UNITS  
CENTRAL OFFICE EQUIPMENT—CIRCUIT  
FORMS E-4407A AND E-4407B**

**1. GENERAL**

**1.001** This Addendum supplements Section 015-707-010, Issue 5.

**1.002** This Addendum is issued to revise the Alphabetical List of Equipment. The new list includes many items not previously shown. This list indicates miscellaneous carrier equipment shall be counted on Line 44 of Form E-4407B rather than on Line 33 of Form E-4407A. The work units per plant item factor remains the same.

## ALPHABETICAL LIST OF EQUIPMENT

Central Office Equipment—Circuit

(Excluding Carrier Telephone)—Form E-4407A

Central Office Equipment—Circuit—Carrier Telephone—Form E-4407B

The suffix -A or -B following the line number indicates Forms E-4407A and E-4407B respectively.

“X” in the Line No. column means that the item is not counted in the inventory.

“#” in the Line No. column after 33-A and 44-B means that the item should be counted on Line 33 of Form E-4407A or on Line 44 of Form E-4407B only if it meets the requirements covered in the text. In general, an item of equipment in a bay of related equipment *is not counted on Line 33-A or Line 44-B.*

EQUIPMENT NAME	LINE NO.	EQUIPMENT NAME	LINE NO.
ALARM EQUIPMENT		ALARM EQUIPMENT (Cont'd)	
1000-Cycle Off-Frequency Alarm	33-A#	“L” Carrier—4KC Carrier Distribution and Impedance Transfer and Alarm Panel	44-B#
Alarm Location Circuit, “L” Carrier Pilot Alarm (See Pilot Alarm Location Circuit)	—	“L” Carrier 4KC Transfer and Alarm	44-B#
Alarm Trunk Circuit, “K” Carrier Repeater Stations	44-B#	“N” and “ON” Carrier Systems— all types (Alarm Equipment)	44-B#
Audible Alarm in Private Line Service Positions	33-A#	Open Circuit Alarm (Telegraph)	33-A#
Audible and Visual Alarm Circuit	33-A#	Radio Station Guardian Alarm Circuit	33-A#
Auxiliary Signal Circuit (V.F. Patch Bay, TDM, H.F., etc.)	33-A#	Service Alarm No. 2 Telegraph Serviceboard	33-A#
B-1 Alarm and Control System	33-A#	Supervisory Alarm Relay (43A-1 Telegraph System)	X
Carrier Failure (43A-1 Telegraph System)	X	“T1” Carrier—Group Alarm	44-B#
Carrier Failure, Type V.F. 2-S (40-Type Telegraph Systems)	33-A#	AMPLIFIER	
Emergency Alarm System (Fire Alarm Circuit)	33-A#	1U Amplifier-Rectifier (See Test Equipment 40B TMS)	—
Gas Pressure Alarm Circuit	33-A#	1W Noise Amplifier-Rectifiers (See Test Equipment 43A Noise M.S.)	—
Grid Supply Alarm and Transfer Circuit Pilot Channel Control, “K” Carrier	44-B#	Amplifier-Rectifier Circuit Pilot Indicator, L Carrier	44-B#
Individual Alarm Circuit for “K” Type Carrier System	44-B#	Audio Monitor, 124-Type	28-A
Individual Alarm Circuit for “L” Type Carrier System	44-B#	Blocking, S.F. (Includes Associated Network)	28-A
Level Alarm Circuit	33-A#	Bridging, Balanced Video	24-A
		Carrier Terminal, Single Sideband	

EQUIPMENT NAME	LINE NO.	EQUIPMENT NAME	LINE NO.
AMPLIFIER (Cont'd)		AMPLIFIER (Cont'd)	
(See Program Carrier Terminal SSB)	-	Monitor, 94D	28-A
Carrier, 88KC	44-B#	Monitor, Private Line Service Bay	28-A
Clamper 1B Video (Amplifier Only, For Rectifier, See E-4410)	24-A	"N" Carrier, Flat Gain (2)	20-B
Distribution, Video	24-A	Out-Amplifier Type A-2 Video System	24-A
In-Amplifier Type A-2 Video System	24-A	Program, 14-Type (Includes Bridge Circuits)	22-A
"J" Carrier - Line Type (See Repeater)	-	Program, Radio Freq. Type	24-A
K-1 Carrier - Deviation Regulator - Automatic (See Regulator, "K" Carrier)	-	Receiving Terminal, Video (RTA)	24-A
K-1 Carrier - Deviation Regulator - Manual (See Regulator, "K" Carrier)	-	Supergroup regulated (LMX-1 only)	15-B
"K" Carrier - Line Type Intermediate Terminal	7-B	TDL Entrance Link, Flat Gain	9-B
"K" Carrier - Line Type Terminal	7-B	Type 12C VA and VB Program (Includes Bridge Circuit)	22-A
"K" Carrier - Twist Type Intermediate Terminal	7-B	Type 29A Program (Includes Bridge Circuits)	22-A
"K" Carrier - Twist Type Terminal	7-B	Type 44A, Modified for Program	22-A
K1-K2 Carrier - Junction Type	44-B#	Type 100	28-A
"K" Carrier Auxiliary Test	44-B#	Type V-3 (See Repeaters)	-
L-1 Carrier Line - Auxiliary (Plug-in)	9-B	Wire Entrance Link	9-B
L-1 Carrier Line - Flat Gain (Plug-in)	9-B	WLEL Transistorized	9-B
L-1 Carrier Line - Receiving (Plug-in)	9-B	WLEL (TD-2 Radio)	9-B
L-1 Carrier Line - Transmitting (Plug-in)	9-B	WLEL (TD-2A)	11-B
L-3 Carrier, Flat (Plug-in)	11-B	AOIT AND ATTC FRAMES (See Test Equipment)	-
L-3 Carrier, Line (Plug-in)	11-B	BALANCING NETWORK (See Network Circuits)	-
L-4 Carrier, Basic Line Amplifier (1 item each)	11-B	BATTERY DISTRIBUTING FUSE BAY	X
L-4 Carrier, Equalizing Amplifier (2 items each)	11-B	BLOCKING CONDENSER CIRCUITS (See Condenser Circuits)	-
L-4 Carrier, Main Station Amplifier (2 items each)	11-B	BLOCKING NETWORKS - DC	33-A#
L-4 Carrier, Regulating Amplifier (2 items each)	11-B	BRANCHING AND BRIDGING CIRCUITS, PROGRAM (See Program Branching and Bridging Equipment, Carrier Systems)	-
Line Amplifier (Zero-loss trunk)	9-B	BRIDGE CIRCUITS, PROGRAM AUDIO (See Amplifier, Program)	-

EQUIPMENT NAME	LINE NO.	EQUIPMENT NAME	LINE NO.
BRIDGE CIRCUITS, V.F. (Private Line Service)	33-A#	CARRIER SUPPLY EQUIPMENT, TELEPHONE	
CALL CIRCUITS, SLEEVE RELAYS	33-A#	57A Oscillator (L-3) Pilot Supply	44-B#
CALLING-IN, LOOP PAD AND WAVE SHAPING CIRCUIT (No. 2 and No. 9 Telegraph Serviceboards)	33-A#	Carrier Frequency Generator Bay, L-3 (Covers any or all of the following:)	44-B#
CARRIER LINE SWITCHING AND TEST PILOT SUPPLY EQUIPMENT, "K" CARRIER (Covers any or all of the following:)	44-B#	520 KC Harmonic Generator Panel	
		13 MC Carrier Amplifier Panel	
		14.04 MC Carrier Amplifier Panel	
		15.6 MC Carrier Amplifier Panel	
		18.2 MC Carrier Amplifier Panel	
		Carrier and Pilot Generator Unit	
Amplifier Battery Supply Circuit		Intermediate Frequency Converter Panel	
Amplifier Switching Circuit		Primary Frequency Converter Panel	
Carrier Line Switching Circuit		Transfer and Control Panel, 13.0, 14.04, 15.6, and 18.2 MC	
Test Pilot Supply Amplifier Circuit		Channel Carrier Supply Equipment J, K and L Carrier	44-B#
Test Pilot Supply Distributing Circuit		(Covers any or all of the following:)	
Test Pilot Supply Oscillator Circuit		4 KC Harmonic Generator	
CARRIER SUPPLY CIRCUITS, TELEGRAPH		124 KC Filter	
40B-1 Carrier Supply Bay, and Motor Generator (See E-4410, Motor Generator Sets)	-	Odd-Channel Distributing Panel	
140A-1 Carrier Supply Base Oscillator	33-A#	Even-Channel Distributing Panel	
140A-1 Carrier Supply Channel Frequency Oscillator	33-A#	Generator Transfer Panel	
140A-1 Carrier Supply Harmonic Generator	33-A#	Group Carrier Filter Panel	
140A-1 Carrier Supply Distributing Circuit	33-A#	Group Carrier Supply Bay - L Carrier	44-B#
140A-1 Carrier Supply Level Alarm	33-A#	(Covers any or all of the following:)	
140A-1 Carrier Supply Low-Voltage Alarm and Transfer Circuit	33-A#	Group Carrier Amplifier	
140A-1 Carrier Supply Voltmeter Test Circuit	33-A#	Group Carrier Distributing Panel	
Service Monitor Panel, 140A Carrier Supply	33-A#	LMX-1 Aux. Freq. Supply	
		104.08Kc	44-B#
		Pilot Generator 104.08Kc	44-B#
		Pilot Insert Unit	44-B#
		88 KC Synchronized Carrier Supply	44-B#
		64 KC Stabilized Pilot Supply	44-B#
		64 KC Stabilizing Unit	44-B#

EQUIPMENT NAME	LINE NO.	EQUIPMENT NO.	LINE NO.
CARRIER SUPPLY EQUIPMENT, TELEPHONE (Cont'd)		CARRIER SUPPLY EQUIPMENT, TELEPHONE (Cont'd)	
LMX-2 Carrier Supply and Scanner Circuitry (See Line 15)	-	Supergroup Carrier Supply Bay "L" Carrier	44-B#
Pilot Generator Bay, L-3 (Covers any or all of the following:)	44-B#	(Covers any or all of the following:)	
Pilot Generator Panel, 308, 556, 2064, 3096, 7266, 8320 KC		124 KC Harmonic Generator Panel	
Pilot Transfer Panel, 308, 556, 2064, 3096, 7266, 8320 KC		Supergroup Carrier Amplifier	
Pilot Supply and Primary Frequency Bay Equipment, L-1 (Covers any or all of the following:)	44-B#	Supergroup Carrier Distributing Panel	
4 KC Frequency Supply		Supply Bay - Type "J" Carrier	44-B#
4 KC Harmonic Generator Panel		(Covers any or all of the following:)	
64 KC Stabilizing Unit		5 KC Oscillator Panel	
92 KC Group Distributing Panel		Carrier Generator Circuit	
Frequency Comparison Panel		Carrier Generator Transfer Circuit	
Pilot Supply, 64, 556, 2064, 3096 KC		Group Carrier Supply Alarm Circuit	
Synchronizing Frequency Amplifier		Group Carrier Supply Amplifier	
Primary Carrier and Pilot Distributing Bay, L-3 (Covers any or all of the following:)	44-B#	Pilot Channel Supply Equipment	
4139 KC TV Reference Frequency Panel		Supply Bay - Type "K" Carrier	44-B#
Carrier Emergency Alarm Panel		(Covers any or all of the following:)	
Idle Indicator Relays for Carrier Supply		120 KC Amplifier and Filter	
Pilot Combining Panel, 308, 556, 2064, 3096, 7266, 8320 KC		120 KC Distributing Amplifier and Filter	
Pilot Distributing Panel		120 KC Distributing Panel	
Primary Carrier Distributing Panel, 13.0, 14.01, 15.6 and 18.2 MC		Carrier Generator Transfer	
Stand-by Pilot Alarm Panel		Pilot Channel Supply	
Transfer Relay Unit for Carrier Supply L-3		Pilot Channel Supply Alarm Amplifier Rectifier	
S. F. Signaling Supply Oscillator Unit	33-A#	Pilot Channel Supply Alarm and Emergency Filter	
S. F. Signaling Supply Transfer Unit	33-A#	Pilot Channel Supply Stabilizing and Distributing Panel	
		Supply Bay - Type "N3" Carrier	44-B#
		(Covers any or all of the following:)	
		Primary Distribution Panel	
		Harmonic Generator and Filter	
		Carrier Supply Alarm Panel	
		Power Supply	
		4 KC Oscillator and Amplifier Units	

EQUIPMENT NAME	LINE NO.	EQUIPMENT NAME	LINE NO.
CARRIER SUPPLY EQUIPMENT, TELEPHONE (Cont'd)		CARRIER, TYPE L-4 (Cont'd)	
Carrier Supply Dual Amplifier Units		Loop-Back Control Ckt	44-B#
		Fuse & Converter Panel	-
Carrier Supply Doubler Amplifier Units		Apparatus Case (Covers any or all of the following:)	
		Repeater	11
		Command Receiver	44-B#
		DC-DC Converter	44-B#
		Equalizer	44-B#
		Memory Unit	44-B#
		Monitoring Osc	44-B#
		Surge Suppressor	44-B#
		Test Osc & Logic Cct	44-B#
CARRIER SYSTEM		CARRIER TELEGRAPH	
Program Terminals (See Program Carrier Terminal)	-	40A-1 Carrier Telegraph Terminal Equipment	21-A
CARRIER, TYPE L-4		40B-1 Carrier Telegraph Terminal Equipment	21-A
Line Bay Eqpt.		40C-1 Carrier Telegraph Terminal Equipment	21-A
A Equalizer Shelf	44-B#	40C-1 V.F. CXR Modified for Overseas	21-A
A Tone Blocking	44-B#	43A-1 Carrier Telegraph Channel Terminal Equipment	21-A
B Equalizer	44-B#	Double Modulation, Diversity (Scram- bler for Overseas)	21-A
B Logic	44-B#	Stelma, Type 1	21-A
B Memory	44-B#	108B Data Set (811C Data Aux. Set Included)	21-A
Branching Conn.	44-B#	All other Carrier Telegraph Terminals	21-A
Fuse and Converter Panel	-	CARRIER TERMINALS	
Hybrid Panel	44-B#	B-1 Data	44-B#
Mastergroup Blocking	44-B#	"C" Type	2-B
Monitor Tone Blocking	44-B#	"H" Type	43-B
Pilot Indicator	44-B#	Commercial Type	41-B
Receiving Conn.	44-B#	LMX-2 Terminal	15-B
20.448 MHZ Reg.	12-B		
512 KHZ Reg.	12-B		
Transmitting Conn.	44-B#		
Control Connecting Bay (Covers any or all of the following:)			
B Test - Tone Osc	44-B#		
B Test - Tone Osc Conn.	44-B#		
Line Switch	44-B#		
512 KHZ Sync Rev Ckt	44-B#		
512 KHZ Stab. & Dist. Ckt	44-B#		
11.648 MHZ Pilot Supply	44-B#		
20.448 MHZ Pilot Supply	44-B#		

EQUIPMENT NAME	LINE NO.	EQUIPMENT NAME	LINE NO.
CARRIER TERMINALS (Cont'd)		COMPOSITE SIGNALING (See Signaling Circuits)	-
MMX-2 Terminal		COMPOSITE SIGNALING LINE BAY (See Testboards, Telephone)	-
(Covers any or all of the following:)		CONCENTRATOR, SUBSCRIBER LINE	33-A#
Binary Generator	44-B#	CONDENSER CIRCUITS USED WITH 10-TYPE RINGERS	33-A#
Carrier Transfer, Dist. & Alm.	44-B#	CONDENSER, ELECTROLYTIC CHARGING CIRCUIT	9-A
Carrier & Pilot Test Pan.	44-B#	CONFERENCE BRIDGE CIRCUIT	33-A#
DC-DC Converter	-	CONFERENCE HOLD AND DISABLING CIRCUIT, TOLL	33-A#
Pilot Generator 2840 KHZ	44-B#	CONFERENCE SERVICE CIRCUIT, TOLL	33-A#
Carrier & Phase Adj	44-B#	CONFERENCE TRUNK, TOLL	33-A#
Patch & Test Panel	44-B#	CONVERTERS (See Signaling Circuits)	
Restoration Switch Panel	44-B#	60V. 60HZ (See Text)	-
Master Group	15-B	115 V.A.C. Converters (See Text)	-
"O" Type	23-B	55 V.A.C. Converters (See Text)	-
"ON" Type	25-B	Converter-Inverter	-
Raytheon KTR-4 Terminal	41-B	DC-DC Converters (See Text)	-
"T" Type	34-B	Polar-Hub	33-A
CHANNEL BANK EQUIPMENT		CORD CIRCUITS, TELEGRAPH	
Type A-1, A-2, A-4, A-5, for Use with J, K and L Carrier	16-B	Auxiliary Teletypewriter	33-A#
Modem, Wideband Data	16-B	Direct-Leg Monitor	33-A#
CHANNEL UNIT EQUIPMENT		Direct-Leg Teletypewriter	33-A#
"N1" Type Carrier	22-B	Legs Patching	33-A#
"N2" Type Carrier	28-B	Loop Monitoring and Meter Test	33-A#
"N3" Type Carrier	30-B	Neutral	33-A#
"O" Twin Channel Carrier Unit	X	Telegraph Connecting	33-A#
"O" Type Carrier	24-B	Telegraph Cord and Set Circuit	33-A#
"ON" Type Carrier	26-B	Telephone Cord and Set Circuit (No. 2 and No. 9 Telegraph Serviceboards)	33-A#
COAXIAL PATCH CORD TEST CIRCUIT (See Test Panel)	-	Teletypewriter Cord and Set Circuit	33-A#
COILS, HYBRID	6-A	Test Signal	33-A#
COILS, REPEAT, ALL TYPES	1-A	Trouble Indicator	33-A#
COILS, RETARD, ALL TYPES	X		
COMMON TALK BATTERY CIRCUITS	33-A#		
COMPANDOR	12-A		
COMPOSITE BALANCE SETS, ALL TYPES	1-A		
COMPOSITE SETS, ALL TYPES	1-A		

EQUIPMENT NAME	LINE NO.	EQUIPMENT NAME	LINE NO.
<b>COUPLING UNITS</b>		<b>EMERGENCY ALERTING NOTIFICATION SYSTEM</b>	33-A#
144 Type (except 144B-2)	33-A#	<b>EQUALIZER EQUIPMENT</b>	
144B2 Coupling Unit	16-A	Amplitude and Delay	33-A#
LCU-1B, Leg Coupling Unit	33-A#	Deviation	44-B#
Repeater Coupling Resistance	33-A#	"L" Carrier Line Equalizers	44-B#
<b>CROSS-CONNECT CABINETS, HIGH FREQ., "N" CXR</b>	44-B#	Private Line Service	33-A#
<b>CROSSTALK BALANCING BAYS, "K" CARRIER</b>	44-B#	Program Transmission	33-A#
		Telegraph	33-A#
		Television Transmission	33-A#
<b>DATA EQUIPMENT</b>		<b>EXPANDOR (See Compondor)</b>	
Data Sets, 108 Type	21-A		
B-1 Data Terminal	44-B#	<b>FILTERS</b>	
Alternate Use Panels (LWA-)	44-B#	Type 32	1-A
Data Reconstitutors and Regenerators	33-A#	Type 128	1-A
Wide Banddata Service Bay	7-A	Power Filter Bay (L-3 Carrier)	44-B#
Modems (See Channel Banks)	-	<b>FLAT GAIN REGULATOR, "K" CARRIER (See Regulator, "K" Carrier)</b>	-
<b>DELAY EQUALIZERS, PRIVATE LINE SERVICES (See Equalizer Equipment)</b>		<b>FUSE BAYS</b>	X
<b>DIRECTOR CIRCUIT FOR SPLIT OPERATION ASSOCIATED WITH 106-TYPE REGENERATIVE REPEATER</b>	33-A#	<b>FUSE PANELS</b>	X
<b>DISTRIBUTING CIRCUIT, NEGATIVE 330-VOLT (No. 2 and No. 9 Telegraph Testboards)</b>	33-A#	<b>GAS PRESSURE ALARM CIRCUIT (See Alarm Equipment)</b>	-
<b>DUAL USE SWITCHING RELAYS (See Switching Circuits, Telegraph)</b>		<b>GRID BATTERY, COMMON, DISCHARGE CIRCUIT, "K" CARRIER</b>	44-B#
<b>ECHO SUPPRESSOR</b>		<b>GRID BATTERY DISTRIBUTING CIRCUIT, "K" CARRIER</b>	44-B#
Type 1A	12-A	<b>GRID BATTERY SUPPLY ALARM CIRCUIT, "K" CARRIER</b>	44-B#
Type 44A	12-A	<b>GRID BATTERY SUPPLY CIRCUIT, "K" CARRIER</b>	44-B#
<b>VOLCAS (Telephone Repeater Voice Operated Loss Control and Suppressor Circuit)</b>	12-A	<b>GRID BATTERY SUPPLY, COMMON, TYPE "K" CARRIER</b>	44-B#
		<b>GRID POTENTIAL SUPPLY CIRCUIT</b>	33-A#

EQUIPMENT NAME	LINE NO.	EQUIPMENT NAME	LINE NO.
GRID SUPPLY, COMMON, FOR 22-TYPE TELEPHONE REPEATERS	33-A#	HUB JACK RELAY, HUB POTENTIOMETER AND SLEEVE RESISTANCE CIRCUIT	33-A#
GRID SUPPLY 85-VOLT RECTIFIER, "K" CARRIER (See Rectifier E-4410)	-	HYBRID COILS (See Coils, Hybrid)	-
GROUP CARRIER EQUIPMENT		HYBRID, RESISTANCE (See Terminating Sets)	-
"J" Type	6-B	IDLE INDICATING CONTROL, CIRCUIT (No. 2 Telegraph Serviceboard)	33-A#
"K" Type	8-B	IMPEDENCE COMPENSATOR (Line Balancing Network)	33-A
"L" Type	15-B	INTERCONNECTION CIRCUIT FOR 40-TYPE CARRIER TELEGRAPH AND VARIOUS LINE FACILITIES	33-A#
Master Group, "L-3" Type (See Master Group Equipment)	-	JACK CIRCUITS	
"N1" Type	21-B	Bridge Circuits, PLS (Part of Private Line Service)	X
"N2" Type	27-B	Jack Fields (See Test Panels)	-
"N3" Type	29-B	KEY CABINET, No. 20 or No. 21	9-A
"O" Type and Open-Wire Junction	23-B	LEGS PATCHING CORD CIRCUIT (See Cord Circuits, Telegraph)	-
"ON" Type and Cable Junction	25-B	LEGS RELAY CIRCUITS	33-A#
Submaster (See Submaster Group Carrier Equipment)	-	LEGS SWITCHING CIRCUIT (See Switching Circuits, Telegraph)	-
Supergroup (See Supergroup Carrier Equipment)	-	LEVEL COMPENSATOR CIRCUIT TELEPHOTOGRAPH 71A-1	33-A#
GROUP CONNECTOR CIRCUIT J-K	44-B#	LINE NOISE SUPPRESSOR CIRCUIT (See Suppression Circuit)	-
GROUP CONNECTOR CIRCUIT J-L	44-B#	LINE TERMINAL EQUIPMENT, TELEGRAPH (See Jack Circuits)	-
GROUP CONNECTOR CIRCUIT K-K	44-B#	LOOP AND ADJUSTABLE PAD CIRCUITS (See Pad Circuits)	-
GROUP CONNECTOR CIRCUIT K-L	44-B#	LOOP AND EQUIPMENT JACK, LOOP PATCHING CORD, AND LOOP PAD FOR 90A2 LOOP REPEATERS	33-A#
GROUP CONNECTOR CIRCUIT L-L	44-B#	LOOP MONITORING AND METER TEST CORD CIRCUIT (See Cord Circuits, Telegraph)	-
GROUP DISTRIBUTING FRAMES (GDF)	44-B#		
HEADSETS, OPERATOR TYPE	31-A		
HIT INDICATOR CABINET, TELEGRAPH	8-A		
HIT INDICATOR CONTROL CIRCUIT AND LEG-HUB RELAY TERMINATING (No. 2 Telegraph Serviceboard)	33-A#		
HIT INDICATOR CONTROL CIRCUIT, TELEGRAPH	33-A#		

EQUIPMENT NAME	LINE NO.	EQUIPMENT NAME	LINE NO.
LOOP PADS (See Pad Circuits)	-	OPERATOR'S TELEPHONE SET	31-A
LOOP PADS, LEG RELAYS	33-A#	ORDER-WIRE CIRCUITS (See Telephone Order-Wire Circuits)	-
LOOP PADS, WAVESHAPING AND CALLING-IN CIRCUIT (No. 2 and No. 9 Telegraph Serviceboards)	33-A#	OUTPUT LINE BRIDGING CIRCUIT ("K" Carrier)	44-B#
LOOP REPEATER TEST CIRCUIT	33-A#	<b>PAD CIRCUITS</b>	
MASTER GROUP EQUIPMENT	15-B	1-C Sockets (Associated with Circuit Patch Bays No. 4 and No. 5 Switching Systems)	8-A
MILLIWATT DISTRIBUTING CIRCUIT	33-A#	1-C Sockets (All Other)	33-A#
MISCELLANEOUS (See specific item name under Alphabetical Listing—items not listed, see text)	-	Fixed Pad Circuits (3 dB, 10 dB, 17 dB, 23 dB, etc)	33-A#
MONITOR AND TALK CIRCUITS (See Test Panel)	-	Loop and Adjustable Pad (Telegraph)	33-A#
MULTIPLE SENDER, 110C-1 (See Sender)	-	Loop Pads Waveshaping and Calling-in Circuit (No. 2 and No. 9 Telegraph Serviceboards)	33-A#
NEGATIVE 330-VOLT DISTRIBUTING CIRCUIT (See Distributing Circuit, Negative 330-Volt)	-	<b>PATCH CORD TEST CIRCUIT, "L" CARRIER—COAXIAL (See Test Panel)</b>	
NEGATIVE 330-VOLT RECTIFIER CIRCUIT (See Rectifier, E-4410)	-	<b>PATCHING BAYS</b>	
NETWORK CIRCUITS, TELEGRAPH (Central Office Anti-kickback)	33-A#	2-Wire (Associated with No. 8 and No. 18B Testboards with other 2-Wire Testboards) Assignment	8-A 8-A
NETWORK CIRCUITS, TELEPHONE		Broadband Restoration Patch Bay	8-A
Bandpass	33-A#	Carrier Program, High-Frequency	8-A
Blocking, S.F. (2400-or 2600-Cycle)	33-A#	"C" Carrier	X
Compromise	33-A#	FM Terminal Patch Bay	X
Open Wire and Cable Line Balancing (See Text)	13-A	High Frequency "J" Carrier	8-A
849 Type (A,B,C,D)	33-A#	High Frequency "K" Carrier	8-A
NOISE MEASURING EQUIPMENT (See Test Equipment)		High Frequency "L" Carrier	8-A
OPEN CIRCUIT ALARM (See Alarm Equipment)	-	Jack Field Unit Associated with Audio Program Transmission	X
OPEN CIRCUIT SECTIONALIZER (See Sectionalizer, Open Circuit for Telegraph Systems)	-	L-3 Carrier Line Bay	8-A
OPEN LINE ANNULIER	33-A#	L-3 Miscellaneous Jack Field and Switching Equipment (Primary Board, SW Control Indicating and Order-Wire Jacks)	44-B#
OPEN LINE ANNOUNCER	33-A#	Master Group Patch Bay	8-A
		No. 2 Telegraph Facility Board (See Testboards, Telegraph)	-

EQUIPMENT NAME	LINE NO.	EQUIPMENT NAME	LINE NO.
PATCHING BAYS (Cont'd)		PROGRAM BRANCHING AND BRIDGING EQUIPMENT, CARRIER SYSTEMS	33-A#
Order-Wire Jack Field Terminations Seal Test Terminal "K" Carrier	X 8-A	PROGRAM CARRIER TERMINAL SINGLE SIDEBAND	33-A#
Supergroup High Frequency	8-A	PROGRAM SWITCHING EQUIPMENT (See Switching Arrangements)	-
Supergroup Tandem Patch Panel	8-A	PULSE CORRECTORS	33-A#
Tandem	8-A	PULSE LINK, AUXILIARY SIGNALING (See Signaling Circuits)	-
TDL Line Bay	8-A	PULSE LINK REPEATERS, AUXILIARY	4-A
Voice-Frequency (All Type Carrier System)	8-A	RECORDERS	
PILOT ALARM LOCATION CIRCUIT, "L" CARRIER (See Test Panel, Telephone)	-	Esterline Angus (Bay Mounted)	9-A
PILOT CARRIER SUPPLY (See Carrier Supply)	-	Multipen Recorder (Bay Mounted)	9-A
PILOT CHANNEL, TYPE "C" CARRIER	3-B	Varian and All Other Chart Type (Bay Mounted)	9-A
PILOT CHANNEL CONTROL CIRCUIT, TYPE "J" CARRIER	44-B#	64 KC Line Pilot Monitor	9-A
PILOT MONITOR, 64 KC (See Recorder)	-	Watt Hour Meter	9-A
PILOT WIRE REGULATOR, "K" CARRIER (See Regulator)	-	RECTIFIERS, ALL TYPES (See text and Section 015-110-010)	-
PILOT WIRE REGULATOR SYSTEM (Voice Circuit)	14-A	REGULATOR, CARRIER LINE	
PLUGGING-UP CIRCUIT FOR LINE OR LOOP LEGS (Telegraph)	33-A#	"J" Carrier Regulating Amplifier (See Repeater)	-
POLE CHANGER, 4-CYCLE	33-A#	"L-1" Type H.F. Line (Plug-in)	10-B
POSITION ALARM RELAYS (No. 9 Telegraph Serviceboard)	33-A#	"L-3" Type H.F. Line (Plug-in)	12-B
POSITION AND POWER CONTROL CIRCUIT (No. 9 Telegraph Serviceboard)	33-A#	"N" and "ON2" Type Deviation	44-B#
POSITION CIRCUITS, 17-C TESTBOARD	X	REGULATOR, "K" CARRIER SYSTEM	
POWER CONTROL BAY, "L" CARRIER	44-B#	Amplifier Type (See Amplifier)	-
POWER SUPPLY 85-VOLT REGULATED TUBE RECTIFIER, "K" CARRIER GRID SUPPLY	-	K-1 Carrier Deviation - Automatic	44-B#
POWER SUPPLY CIRCUIT, 55-VOLT AC "K" CARRIER	44-B#	K-1 Carrier Deviation - Manual	44-B#
		Master Flat Gain Controller and Distributing Circuit Transmission Regulation	44-B#
		Master Twist Controller and Distributing Circuit	44-B#
		Pilot Channel Control and Gain Deviation Limiter Circuit "K" Carrier Transmission Regulation	44-B#

EQUIPMENT NAME	LINE NO.	EQUIPMENT NAME	LINE NO.
REPEAT COILS (See Coils, Repeat)	-	REPEATERS, TELEPHONE (Cont'd)	
REPEAT CYCLE SWITCHING CIRCUIT (See Switching Circuits, Telegraph)	-	Type 24A	11-A
REPEATER, CARRIER SYSTEM		Type 44A-1 (Other Than Program)	11-A
"C" Type	1-B	Type 44A-1 (Program)	22-A
"H" Type	42-B	Type 22V4, 24V4 and 44V4	11-A
"J" Type	5-B	Type E1, E2, E3, E6, E7	10-A
"N" Type (tube)	18-B	Type V-1 (Other Than Program)	10-A
"N" Type (transistor)	20-B	Type V-3 (Amplifiers Other Than Program)	10-A
"O" Type	19-B	Type V-3 (Program)	22-A
"ON" Type	19-B	Type V-4 (Except 22, 24, or 44)	10-A
"T" Type	33-B	Wideband Data Loop Repeaters	22-A
Commercial Type	40-B	RESISTANCE HYBRIDS (See Terminating Sets, 4-Wire)	-
Other Bell System Type	42-B	RINGERS (See Signaling Circuits)	-
REPEATERS, TELEGRAPH		SECTIONALIZER, OPEN CIRCUIT FOR TELEGRAPH SYSTEMS	33-A#
10 Type	16-A	SEND PANEL 2A (Milliwatt Supply)	33-A#
12 Type	16-A	SENDER, MULTIPLE	
13 Type	16-A	110-C Type	33-A#
16 Type	16-A	110E Type (Including Driver Unit)	9-A
17 A-1	16-A	110-E Type Output Unit Only	9-A
20 Type	16-A	SERVICEBOARDS (See Testboards)	-
90 Type	16-A	S.F. SIGNALING SUPPLY OSCILLATOR (See Carrier Supply Equipment)	-
96 Type	16-A	SIGNAL CONVERTERS (See Signaling Circuits)	-
Direct Leg Adapters	16-A	SIGNAL LEAD EXTENSION CIRCUITS (See Signaling Circuits)	-
Regenerative 102 Type	15-A	SIGNALING CIRCUITS	
Regenerative 106 Type	15-A	64C-1 Selector Signaling System (Telegraph)	33-A#
Regenerative 143 Type	15-A	Answering Jack Relay Circuit for Morse Subscriber's Calling-in Signal	X
Terminal Metallic	16-A	Auxiliary Pulse Link Signaling Circuit	4-A
TWX Single Line	16-A		
Type 107A-1 Control Circuit Terminal Repeater for Use on Cable Lines and Telephotograph Station Loop Circuits (See Level Compensator 71A-1)	-		
REPEATERS, TELEPHONE			
Toll Conference	11-A		
Type 2A2	11-A		
Type 22A	11-A		

EQUIPMENT NAME	LINE NO.	EQUIPMENT NAME	LINE NO.
SIGNALING CIRCUITS (Cont'd)		SUBSCRIBER LINE TEST UNIT (No. 9 Telegraph Serviceboard)	33-A#
Auxiliary Signal Circuit (V.F., TDM, and H.F. Patch Bays) (See Alarm Equipment)	-	SUPERGROUP CARRIER EQUIP- MENT, TYPE L	15-B
Composite Signaling	4-A	SUPERGROUP CONNECTOR CIR- CUIT, L CARRIER	44-B#
Converters	5-A	SUPPRESSION CIRCUIT LINE NOISE (Telegraph)	33-A#
Dial Long Lines	33-A	SUPPRESSION CIRCUIT, TELE- GRAPH THUMP	33-A#
Long-Trunk Circuits	33-A	SWITCHING ARRANGEMENTS	
Ringer Type 10 (20-cycle to DC)	5-A	Amplifier Reversing Circuit, Program	23-A
Ringer Type 11 (20-cycle to 20-cycle)	5-A	Carrier Line Switching, "K" Car- rier (See Carrier Line Switch- ing and Test Pilot Supply Equip- ment, "K" Carrier)	-
Ringer Type 20 (135-cycle to DC)	5-A	Control and Reversing Circuit, Program	23-A
Ringer Type 21 (135-cycle to 20-cycle)	5-A	L-1 Carrier Line Switch and Switch Control Circuit	44-B#
Ringer Type 22 (135-cycle to 135-cycle)	5-A	Line Switching Relay and Preselec- tion Circuit, Program	23-A
Ringer Type 30 (1000-cycle to DC)	5-A	Metallic Reversing Control Circuit, Program	23-A
Ringer Type 31 (1000-cycle to 20-cycle)	5-A	Primary Control and Reversing Circuit, Program	23-A
Ringer Type 32 (1000-cycle to 135-cycle)	5-A	Secondary Control and Reversing Circuit, Program	23-A
Selective Signaling Units for Pri- vate Line Service Using Standard 20-, 135- and 1000-Cycle Signal- ing Equipment	5-A	Switch Relay	33-A#
S.F. Units, Tube Type	2-A	Switched Connector Lockup Units	33-A#
S.F. Units, Transistor Type	3-A	TD-Radio Remote-Control Circuit for 223-Type Switches (DC Control and Sequence Signal Control)	33-A#
Signal Lead Extension Circuit, Type EMX-1(DX-1)	4-A	Transfer Relays	33-A#
Signal Lead Extension Circuit, Type EMX-2 DX-2)	4-A	V-1 Telephone Repeater (See Test Panel)	-
SS-1 Selective Signaling System for Order Wire (See Telephone Order Wire)	-	Video Pushbutton Switch Panel	25-A
TASI (Signal Converters) (Inven- tory by components)	X	Video Switching and Control Sys- tem (TV Program SW)	25-A
SIGNALING SUPPLY AND DISTRI- BUTING CIRCUIT, 1000-CYCLE	33-A#		
SINGLE SIDEBAND PROGRAM EQUIPMENT (See Program Car- rier Terminal S.S.B.)	-		
SUBMASTER GROUP CARRIER EQUIPMENT, TYPE L	15-B		

EQUIPMENT NAME	LINE NO.	EQUIPMENT NAME	LINE NO.
SWITCHING ARRANGEMENTS FOR PRIVATE LINE SERVICES (Typical Types)	33-A#	TELEPHONE ORDER-WIRE EQUIPMENT USING SS-1	33-A#
2-Wire, 4-Wire Switch Circuits		SELECTIVE SIGNALING SYSTEM (Covers any or all of the following:)	33-A#
Auxiliary Control Relays		100-Ohm Sleeve Relay Unit	
Cable Line Relays		500-Ohm Sleeve Relay Unit	
Idle Loop Switching Relays		1800-Ohm Relay Unit	
Loop Switching Relays		Code Area Unit	
Multistation Line EQ and Other Similar Circuits		Dial Connecting Unit	
		Dial Transfer Unit	
SWITCHING CIRCUITS, TELEGRAPH		Hybrid Coil Unit	
Dual Use Switching Relays (Telegraph)	33-A#	Loudspeaker Multiple Bridge Unit	
Legs Switching (No. 2 and No. 9 Telegraph Serviceboards)	33-A#	Telephone Unit	
Repeat Cycle (Telegraph)	33-A#	Timer and Termination Unit	
SWITCHING, "K" CARRIER LINE (See Carrier Line Switching and Test Pilot Supply, Type "K")	-	TELEPHONE ORDER-WIRE EQUIPMENT WITH DC SELECTIVE SIGNALING	33-A#
SWITCHING, MULTILINE		TELEPHONE ORDER-WIRE AND ALARM EQUIPMENT, N-1 CARRIER	44-B#
L-3 Carrier Automatic Line Switching (Receiving)	44-B	TELEPHONE ORDER-WIRE SEQUENCE SIGNALING EQUIPMENT (Covers any or all of the following:)	33-A#
L-3 Carrier Automatic Line Switching (Transmitting)	44-B	Auxiliary Sequence Signaling Unit	
TELEPHONE LINE CIRCUITS FOR TELEGRAPH		Multiple Connector Unit	
Telephone Line Circuits for Loop	33-A#	Sequence Signaling Receiver	
TELEPHONE MONITORING CIRCUITS		Sequence Signaling Transmitter	
Associated with Gray Audiograph	33-A#	Sequence Signaling Translator	
Standard Testboard Arrangements	X	Sequence Signaling Unit	
TELEPHONE ORDER-WIRE 660-1500-CYCLE RECEIVING PANEL FOR SELECTIVE SIGNALING	33-A#	Telephone Unit	
TELEPHONE ORDER-WIRE EQUIPMENT FOR USE WITH 600-1500-CYCLE SELECTIVE SIGNALING AND 1000-CYCLE RING-DOWN SIGNALING	33-A#	Transmitter Control Unit	
		Trunk Unit Arranged for 20-Cycle Signaling	
		Trunk Unit, Arranged for DC Signaling	
		Trunk Unit for PBX or CO Line	
		Vibrating Reed Selectors	

EQUIPMENT NAME	LINE NO.	EQUIPMENT NAME	LINE NO.
TELEPHOTO LEVEL COMPENSATOR CIRCUIT (See Level Compensator Circuit Telephoto 71A-1)	-	TESTBOARDS, TELEGRAPH (Cont'd)	
TELETYPEWRITER EQUIPMENT		No. 10A Type	7-A
14 Reperforator	18-A	No. 15 Type	7-A
14-Type Teletypewriter	18-A	Data Observing Console (DOC)	7-A
15-Type Teletypewriter	18-A	Data Quality Monitor (DQM)	33-A#
19-Type Teletypewriter	18-A	Data Testing Console (DTC)	7-A
20-Type Teletypewriter	18-A	904 Data Test Center	7-A
28-Type Teletypewriter	18-A	DOTC Backup Bays	33-A#
81-B-1 Cutting Arrangement	33-A#	V.F. Line Console (VFL)	7-A
200 ABTD (15-Type Modified for ATTC)	18-A	TESTBOARDS, TELEPHONE	7-A
Concentrator-Distributor	33-A#	Composite Signaling Line Bay	8-A
Nontyping Selector	33-A#	Intermediate Data Bridge Bays	8-A
Sotus	33-A#	Private Line Service	7-A
Teletypewriter, Mounted in Testboard, Serviceboard, or AOIT	18-A	Type No. 4	7-A
Transmitter-Distributor	33-A#	Type No. 5	7-A
TELEVISION MONITOR (See Video Monitor)	-	Type No. 8	7-A
TELEVISION OPERATING POSITION KEY AND TELEPHONE SET EQUIPMENT	8-A	Type 17-B	7-A
TELEVISION TERMINALS		Type 17-C	7-A
"L" Carrier, Type B-2, C-2, B-3, C-3, R-3 or T-3 (For Rectifier, see E-4410)	27-A	Type 18-B	7-A
TERMINATING SETS, 2-WIRE	33-A	Type 19-A	7-A
TERMINATING SETS, 4-WIRE		Type 21-E	7-A
All Types	6-A	Wideband Data Service Bay	7-A
Resistance Hybrid	6-A	TEST EQUIPMENT TELEGRAPH	
TESTBOARDS, TELEGRAPH		ERX Transceiver	X
No. 2 Facility Board	7-A	Portable	X
No. 2 Service	7-A	118C-Type Telegraph Transmission Measuring Set (Includes Jack, Key, Lamp and Meter Circuit at Testboard Position)	8-A
No. 4 Type	7-A	160A-1 Carrier Telegraph Test Set	8-A
No. 5 Type (Modified)	7-A	165C-1 Transmission Measuring Set (See Test Panel, Telegraph)	-
No. 9 Type	7-A	TEST EQUIPMENT, TELEPHONE	
No. 9B Type	7-A	Portable	X
		2A Toll Test Unit	8-A
		6A Transmission Measuring System	8-A
		6C Oscillator	8-A
		6E Oscillator	8-A

EQUIPMENT NAME	LINE NO.	EQUIPMENT NAME	LINE NO.
TEST EQUIPMENT, TELEPHONE (Cont'd)		TEST EQUIPMENT, TELEPHONE (Cont'd)	
7B Transmission Testboard	8-A	Oscillator 14A	8-A
13A Oscillator	8-A	Oscillator 19C Bay Mounted	X
17B Oscillator	8-A	Oscillator 6010B	8-A
27A Sending Console for Transmission Measurement	8-A	Signal, Type 1A Bay Mounted	X
31A Visual Transmission Measuring Set	8-A	Signal, Type SS1 Bay Mounted	X
37A or 37C Cosine Equalizer Adjustment Set	8-A	Singing Point Type 2E Bay Mounted 17-C Testboard	X
40B Transmission Measuring System (Includes 43A Noise Measuring Circuit)	33-A#	TD-2 Transmitter-Receiver Test Set	8-A
40B Transmission Measuring System (Mobile Bay)	8-A	TEST PANEL, TELEGRAPH	
43A Noise Measuring Circuit (See Test Equipment 40B TMS)	-	6th Pulse Suppression Test Set	9-A
44A Transmission Measuring System	8-A	119C Telegraph Signal Distorting Test Set (Includes All Extension Circuits)	9-A
46A Transmission Measuring System (Phase and Delay L-1 Circuit)	8-A	165A Test Set	X
53A Mobile Oscillator	8-A	165B Test Set	X
92 KC Transmission Measuring Circuit "L" Carrier High-Frequency Bays	9-A	165C Test Set	9-A
AOIT Frame	8-A	Cord Continuity Test Circuit	9-A
ATTC Frame	8-A	Loop Adjust Indicating Circuit	9-A
ATMS Frame	8-A	"N" Response Test Set	9-A
"C" Carrier Mobile Test Bay	8-A	Polar Relay Test Panel, 11A-2 (See Test Panel, Telephone)	9-A
"D" Spec. Analyzer, L-1 Carrier (97B)	8-A	Signal Analyzer, TSA-2A TOWACO	X
FM Terminal Test Set	8-A	Stability Test Set, 117A-1, 117B-1	9-A
FM Protection Switching Test Set	8-A	Stelma Multichannel Distortion Monitor	9-A
L-1 Test Bench (Regulator Repair and Repeater Test Equipment) (3 Bays = 1 Test Position) (Includes Rectifier)	8-A	Telegraph Monitoring Panel, 40B Carrier	9-A
L-3 Test Bench (4 Bays = 1 Test Position) (Includes Rectifier)	8-A	Telegraph Signal Biasing Circuit, 119A (Includes All Extension Circuits)	9-A
"N" and "ON" Carrier Mobile Test Bay	8-A	TOWACO Telegraph Monitor, TSM-1	X
		Transmitter Start Circuit, 81-B-1	9-A
		TEST PANEL, TELEPHONE	
		1B Impedance Bridge Desk (See Test Equipment, 7B TMB)	-
		20-and 135-Cycle Ringer Test Panel	9-A

EQUIPMENT NAME	LINE NO.	EQUIPMENT NAME	LINE NO.
TEST PANEL, TELEPHONE (Cont'd)		TEST PANEL, TELEPHONE (Cont'd)	
20-Cycle DC Signaling Test Circuit	9-A	S.F. 2600-Cycle Testing Circuit	9-A
22-Type Repeater, Jack Field	X	Telephone Repeater Filament Activity Test Circuit for Use with 1/2 Amp. Tubes	9-A
44-Type Repeater, Jack Field	X	Testing and Adjusting Circuit for 1000-Cycle Two-Tube Ringers	9-A
111A-2 Relay Test Panel for Polar Relays	9-A	Testing and Maintenance Test Circuit for 1000-20 and 1000-135 Cycle Intermediate Ringers and 1000-20 Cycle Terminal Ringers	9-A
116A-1, B-1, C-1 Relay Test Panel for Polar Relays	9-A	Transmission Measuring Auxiliary Test Circuit for Use with V.F. Amplifiers (V-1 Amplifier Switching Circuit)	9-A
523A Ringer Test Panel	9-A	V-1, V-3 and V-4 Repeater Jack Field	X
525A Panel Testing and Adjusting Set	9-A	Visual Transmission Measuring Set (Rec. D-178982, Send D-178981)	8-A
546A Ringer Test Panel	9-A	VOLCAS* Telephone and Test Circuit (*Voice-Operated Loss Control Suppressor)	9-A
1000-Cycle DC Ringer Signaling Test Circuit	9-A	(Also See Test Equipment)	
Alarm Location Panel, L-3 and L-1	9-A	TEST POSITIONS (See Patching Bays)	-
"C" Carrier Testing Circuit	9-A	TONLOC EQUIPMENT	12-A
Conference Trunks and Access Test Panel	9-A	TRANSFER RELAYS (See Switching Arrangements)	-
Monitor Panel (associated with "X" and "E" type SF bays)	9-A	TRUNK CIRCUITS	
Telephoto Level Compensator Test Panel	9-A	2-Way Automatic, Ringdown, Local Station, Dial PBX and All Other Intraoffice and Interoffice Plant Communication Trunk Circuits. Excludes all Toll and Toll Connecting Trunk Circuit Equipment Counted on Other Forms	33-A#
Composite Ringer Test Circuit	9-A	TWIN CHANNEL UNITS	
Echo Suppressor Jack Field	X	"O" Type Carrier	X
Esterline Angus Recorder, Bay Mounted (See Recorders)	-	"ON" Type Carrier	X
Gas Pressure Alarm Circuit, No. 5 Toll Testboard (See Alarm Equipment)	-	V.F. CHANNEL PATCH JACK CIRCUITS (See Patching Bays)	-
Jack Field, Program, 124-Type Amplifier and Bridge Circuit Jacks	X		
L-3 Auxiliary Station Test Jacks, and Switches	X		
Monitor and Talk 511E Panel	9-A		
Monitor and Talk, 4-Wire for Open-Wire and Cable Conductors "C" "H" and Echo Suppressors	9A		
Patch Cord Test Circuit, "L" Carrier Telephone (Coaxial)	9-A		
S.F. 1600-Cycle Testing Circuit	9-A		

EQUIPMENT NAME	LINE NO.	EQUIPMENT NAME	LINE NO.
VIDEO MONITOR 81A Monitoring Oscilloscope for Television Monitoring	26-A	VOLUME LIMITER CIRCUIT FOR "C" CARRIER TELEPHONE TERMINALS	4-B
"A" Scope	26-A	WAVESHAPING, LOOP PADS AND CALLING-IN CIRCUIT (No. 2 and No. 9 Telegraph Serviceboards)	33-A#
KS-5799 L-1	26-A		
KS-15654 L-1	26-A		
R.C.A. Color	26-A	WIRE ENTRANCE LINKS (Ex- clude Amplifier and Amplifier Panel) (Count Amplifier on Line 9B or 11B)	33-A#
VIDEO SWITCHING EQUIPMENT (See Switching Arrangements)	-		