

PRACTICE 512-6261-200 P0594715 Issued: 83 02 04 Standard

"CONFERENCE 2000" TELECONFERENCE TERMINAL

QTAF-TYPES

DESCRIPTION, INSTALLATION, OPERATION, MAINTENANCE, AND CONNECTIONS

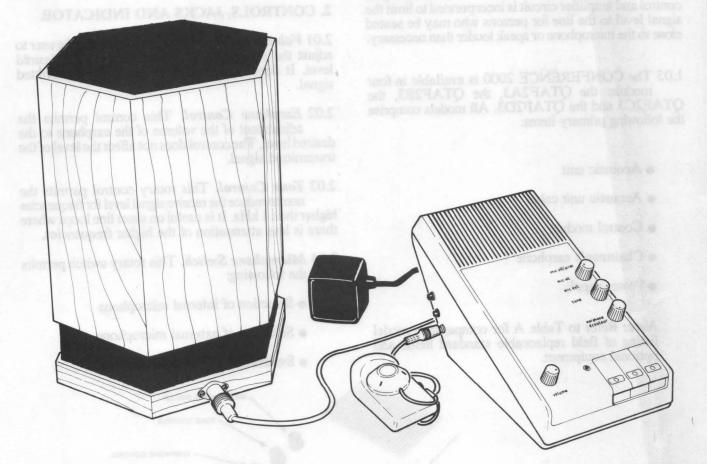


Fig. 1 — CONFERENCE 2000

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Reason for Reissue: This practice is reissued to update descriptions of previously available models and to incorporate information on the QTAF2D3 type for U.S. application.

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1. GENERAL

1.01 The CONFERENCE 2000 teleconference terminal permits voice-switched handsfree conversation between two or more geographically separated groups. CONFERENCE 2000 is powered by a separate transformer, and it can be operated at any location where a telephone jack and an ac outlet are readily available.

1.02 The CONFERENCE 2000 differs from a COMPANION* or LOGIC* handsfree unit in that the omnidirectional microphone and loudspeaker are located in the acoustic unit. An automatic gain control and amplifier circuit is incorporated to limit the signal level to the line for persons who may be seated close to the microphone or speak louder than necessary.

1.03 The CONFERENCE 2000 is available in four models: the QTAF2A3, the QTAF2B3, the QTAF2C3 and the QTAF2D3. All models comprise the following primary items:

- Acoustic unit
- Acoustic unit cable
- Control module
- Chairman's earphone †
- Power supply.

Note: Refer to Table A for comparative model listing of field replaceable standard items and optional equipment.

1.04 The QTAF2A3 and QTAF2B3 models replace the QTAF2A1. The QTAF2C3 model CON-FERENCE 2000 replaces the QTAF2D1, and includes the optional NE-D16QD control module mounting cord as standard equipment. The NE-D16QD cord is used to connect the control module to other than LOGIC-type telephone sets; this optional cord is also available for use on the QTAF2A3 and QTAF2B3 and QTAF2D3. The QTAF2D3 model is U.L. listed and for the U.S. Market.

1.05 If required, customer-provided external microphones and mixer may be used with the CONFERENCE 2000.

2. CONTROLS, JACKS AND INDICATOR

2.01 *Volume Control*. This control permits the user to adjust the volume of the loudspeaker to the desired level. It does not affect the level of the transmitted signal.

2.02 *Earphone Control.* This control permits the adjustment of the volume of the earphone to the desired level. The control does not affect the level of the transmitted signal.

2.03 **Tone Control.** This rotary control permits the user to reduce the receive signal level for frequencies higher than 1 kHz. It is useful on short line loops where there is less attenuation of the higher frequencies.

- 2.04 *Microphone Switch*. This rotary switch permits the following:
 - Selection of internal microphone
 - Selection of external microphone
 - Switching off of all microphones.

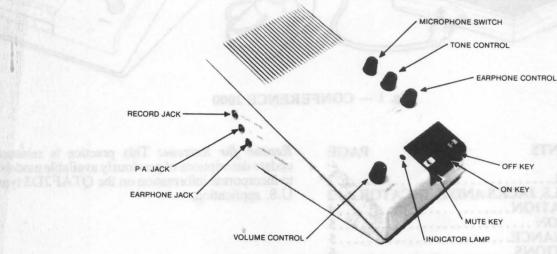


Fig. 2 — Control Module

† Not included with QTAF2A3 model.

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2.05 *Indicator Lamp.* The red Light-Emitting Diode (LED) indicates the operating mode of the teleconference terminal. This diode is lit when the terminal is in transmit mode and extinguished when the terminal is in receive mode.

2.06 *Earphone Jack.* This feature permits the optional use of the earphone. The user of the earphone may monitor the line inputs which originate from all points on the teleconference.

2.07 **Record Jack.** This feature permits the connection of a tape recorder to record all conversation.

2.08 **PA Jack.** This feature permits the connection of a public address system which will allow a larger group to monitor the conversation.

2.09 On Key. This piano-type key must be depressed

momentarily to answer an incoming call when the handset is on-hook, or before commencing on-hook dialing. The key must be held depressed during transfer from handset to handsfree operation. The key may be held depressed to hold a call on the terminal with both transmission and reception inhibited. The key is designated by a green identification symbol on the key face.

2.10 Off Key. This piano-type key must be momen-

tarily depressed to terminate a call on the terminal. The key is designated by a red identification symbol on the key face.

2.11 *Mute Key.* This piano-type key may be depressed during a call to inhibit transmission without affecting reception. The key is designated by an amber identification symbol on the key face.

TABLE A FIELD REPLACEABLE ITEMS AND OPTIONAL EQUIPMENT

	DESCRIPTION	Q T A F 2 A 3	Q T A F 2 B 3	Q T A F 2 C 3	Q T A F 2 D 3 C
P0582728	Acoustic Unit Assembly (American Walnut)	X	X	x	X
P0582784	Acoustic Unit Cable Assembly (Long), 10 ft. (3.1m)	X	X	X	X
P0621435	Control Module Assembly (Flame Retardant Plastic), e/w 15-pin Connector	X	X	X	X
A0285450	NE-D16QD Mounting Cord (Control Module), 16-conductor	NOC	with a	X	2.6
P0582735	Chairman's Earphone Assembly	3195	X	X	2
A0312887	Transformer QTK312A8	odqsi	at add	hold h	2
A0293449	Power Supply Assembly QTK312A7	X	X	X	
P0583443	English Operations Guide	X	X	X	2
P0588549	French Operations Guide		X	X	
R0103648	Inner Carton	X	X	X	2
R0103650	Outer Carton	X	X	X	2
R0103649	Plastic Handle (for Outer Carton)	X	X	X	2
P0616028	FCC Registration Label	X			2
Optional Equipment					
A0285450	NE-D16QD Mounting Cord (Control Module), 16-conductor	X	x		2
P0582733	Acoustic Unit Extension Cable, 10 ft. (3.1m)	x	x	x	

Not required by Bell Canada

3. INSTALLATION

Location

3.01 For best acoustic performance, the CONFER-

ENCE 2000 should be installed in a room which does not exceed 25 ft. (7.6m) in length or width, with a maximum height of 9 ft. (2.7m). The walls, floor and ceiling should also be acoustically treated to minimize echo effect (i.e., carpet on floor, a hard surface ceiling, drapery covering windows, etc.).

3.02 The acoustic unit should be positioned a minimum of 3 ft. (0.9m) from any wall and should be centrally located on the conference table approximately equidistant from all participants.

3.03 No participant should be more than 10 ft. (3.1m)

from the acoustic unit. The surface of the table directs the voice input; positioning the acoustic unit on a pedestal adversely affects the performance of the product.

Power Supply

3.04 Input power to the CONFERENCE 2000 is provided through a power supply comprising a transformer and a 12 ft. (3.7 m) long, two-conductor cord terminated by a power plug. The transformer steps the voltage down from 115 Vac to 16 Vac and is capable of delivering a current of 375mA. The power plug connects into the power jack on the rear of the control module.

Connection to LOGIC Telephone Sets

- 3.05 To connect the CONFERENCE 2000 to LOGICtype telephone sets proceed as follows:
 - (1) Hold the telephone set in the right hand with the dial forward.

(2) Hold the control module in the left hand with the face forward.

(3) Tilt the upper edge of the control module towards the upper edge of the telephone set and bring the set and module togther so that the plug is firmly in the socket.

Connection to SL-1 Electronic Telephone Sets (LOGIC-style)

its most standarto dately originate from all

3.06 The CONFERENCE 2000 can be connected to

a LOGIC-style SL-1 set by following the procedure outlined in 3.05. For proper operation however, it is necessary to make minor wiring modifications to the SL-1 set and add either a QKK1E Handsfree Interface Kit (A0283601) or a QKK3B Automatic Handsfree Interface Kit (A0283608). When a QKK-type kit is used, external power to the control module is not required; refer to Chart 3-5 of Practice 553-2001-211 for complete details (Wiring of the CONFERENCE 2000 is similar to the QUS1C LOGIC handsfree unit.)

3.07 For connection to other than LOGIC-type telephone sets, including NE-500- and NE-2500-type

SL-1 sets, the NE-D16QD mounting cord must be used. Refer to Tables B and C.

Connection to SM-1 Telephone Sets (LOGIC-style)

3.08 The CONFERENCE 2000 can be connected to a LOGIC-style SM-1 set by following the procedure outlined in 3.05. For proper operation however, it is necessary to make minor wiring modifications to the SM-1 set and add a QKK2C Interface Kit (A0272575). For complete connection instructions refer to Practice 502-8771-200 for the SM-1 telephone set or Practice 518-8011-210 for the SM-1 system. (Wiring of the CONFERENCE 2000 is similar to the QUS1C LOGIC handsfree unit.)

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External Microphones

3.09 When the background noise level is so high that

the called party may have difficulty hearing, external microphones located in closer proximity to the participant may improve the transmission quality. When more than one external microphone (customerprovided) is essential, a standard microphone mixer (customer-provided) is required.

Notes: Customer-provided microphones should meet the following specifications:

Dynamic

- 10,000 ohm impedance
- 1/4 in. (6.4mm) plug.

Although 600-ohm, electret-type lapel microphones perform well, the battery requirement (3- to 6-hour operational use) may lead to frequent battery replacement.

3.10 The microphone mixer should be centrally located, adjacent to the acoustic unit. This ensures that the external microphones are positioned approximately equidistant from the acoustic unit.

Note: Commercially available active mixers (equipped with self-contained amplification circuits) can be connected to the CONFERENCE 2000 mixer jack located at the back of the control unit. When external microphones are in use, the microphone switch on the front of the control unit must be set to the **mic ext** position.

3.11 When the microphone mixer cable is not long enough to provide a central location for the acoustic unit, an add-on extension cord will be required. 3.12 On completion of the CONFERENCE 2000 installation, the operation tests described in Chart 1 must be performed.

4. OPERATION

- 4.01 For best operation, the following distance and speech guidelines should be observed:
 - Conference participants should be seated not closer than 3 ft. (0.9m) or further than 10 ft. (3.1m) from the acoustic unit.
 - Speech should be at normal conversation level. Lower levels of speech do not operate the voice switching circuit and, consequently, are not transmitted. The level of speech must be raised as the distance from the acoustic unit is increased.

Note: The voice-switching circuit permits transmission of speech in one direction at a time. The circuit switches to transmit when you speak and to receive when the distant party responds.

4.02 The acoustic unit represents the called party. Speech should be directed toward the acoustic unit at all times. Speech directed away from the unit sounds hollow at the called party location.

5. MAINTENANCE

5.01 If the CONFERENCE 2000 must be returned for repair, it should be packaged using the cartons listed in Table A to protect against damage during shipping.

5.02 The CONFERENCE 2000 should be treated as

a piece of fine furniture (especially the acoustic unit), and should not be subjected to temperature extremes during use, storage or shipment.

6.0 CONNECTIONS

- 6.01 The CONFERENCE 2000 is available as follows:
 - Equipped with a 15-pin connector which is compatible with LOGIC-style telephone sets.
- An optional NE-D16QD mounting cord (standard on QTAF2C3) is available for connection to single-line or multiline telephone sets. The NE-D16QD cord converts the modular connection to spade-tip connectors.
- 6.02 Refer to Tables B and C for CONFERENCE 2000 connection information.

FIGURE	DESCRIPTION
3	Connections for block diagram of CONFERENCE 2000
4	Connections for block diagram of CONFERENCE 2000 with optional microphone mixer and customer-provided microphones
5	Connections for block diagram of control module equipped with NE-D16QD cord
6	Connections for block diagram of control module equipped with a 15-pin connector
7	Connections for single-line telephone set rotary dial
8	Connections for single-line telephone set DIGITONE* dial
9	Connections for single-line telephone set Phase 1 DIGIPULSE* dial
10	Connections for W.E. Co. single-line telephone set DIGITONE dial, or equivalent
11	Connections for single-line telephone set Phase II DIGIPULSE dial, less polarity guard
12	Connections for multiline key telephone set DIGITONE dial
13	Connections for multiline key telephone set Phase II DIGIPULSE dial, less polarity guard
14	Connections for W.E. Co. multiline key telephone set with pushbutton dial equipped for on-hook dialing
15	Connections for multiline key telephone set with rotary dial
16	Connections for auxiliary transfer contacts
17	Connections for external station busy lamp or relay control

TABLE B CONNECTION INFORMATION (FIGURES)

* DIGITONE and DIGIPULSE are trademarks of Northern Telecom Limited

TABLE C CONNECTION INFORMATION (TABLES)

TABLE	DESCRIPTION
D	Connections for NE-500-type telephone sets
E	Connections for NE-2500-type telephone sets
F	Connections for CONTEMPRA* telephone sets
G	Connections for NE-564-type telephone sets
Н	Connections for NE-2564-type telephone sets
Ι	Connections for NE-630- and NE-2630-type telephone sets
J	Connections for Stromberg-Carlson single-line telephone sets
К	Connections for Stromberg-Carlson multiline telephone sets
L	Connections for ITT Kellogg single-line telephone sets
М	Connections for ITT Kellogg multiline pushbutton dial telephone sets
N	Connections for ITT Kellogg multiline rotary dial telephone sets
0	Connections for ITT Kellogg multiline pushbutton dial telephone sets, e/w NE-35Q3B DIGITONE dial
Р	Connections for Automatic Electric single-line telephone sets
Q	Connections for Automatic Electric multiline rotary dial telephone sets
R	Connections for Automatic Electric multiline pushbutton dial telephone sets
S	Connections for Automatic Electric 860-type multiline telephone sets
R	Connections for Automatic Electric multiline pushbutton dial telephone se

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EARLE CONNECTION INFORMATION (TAD)

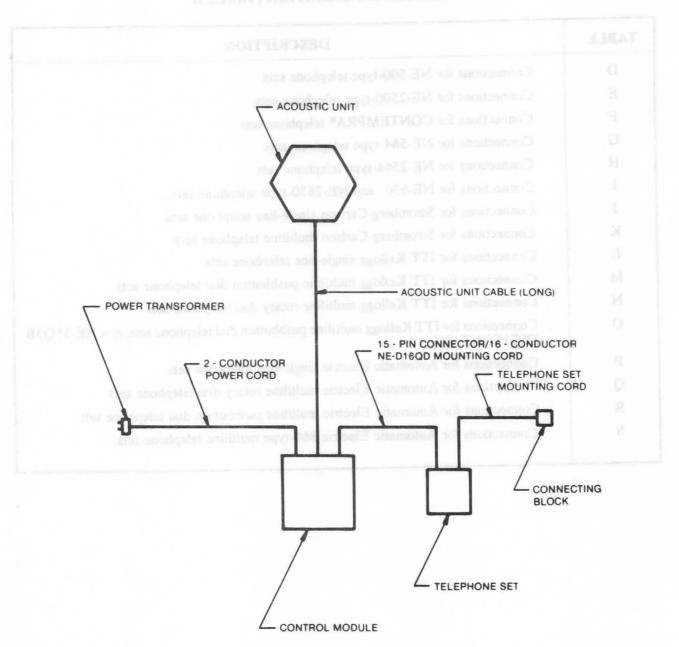
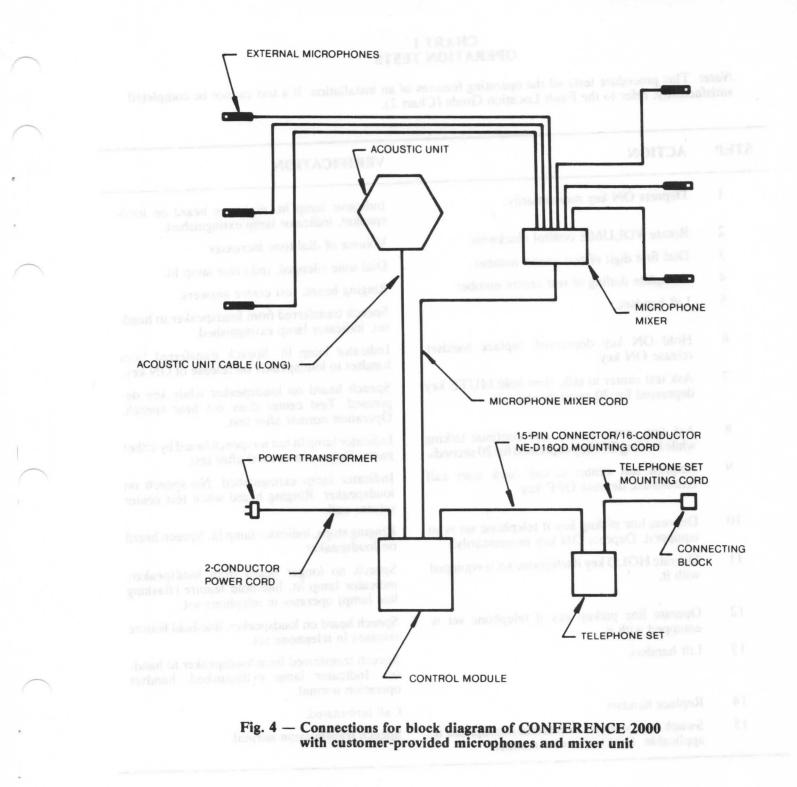


Fig. 3 — Connections for block diagram of CONFERENCE 2000

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CHART 1 OPERATION TESTS

Note: This procedure tests all the operating features of an installation. If a test cannot be completed satisfactorily, refer to the Fault Location Guide (Chart 2).

STEP	ACTION	VERIFICATION
1	Depress ON key momentarily.	Indicator lamp lit, dial tone heard on loud- speaker, indicator lamp extinguished.
2	Rotate VOLUME control clockwise.	Volume of dial tone increases.
3	Dial first digit of test centre number.	Dial tone silenced, indicator lamp lit.
4	Complete dialing of test centre number.	Ringing heard, test centre answers.
5	Lift handset.	Speech transferred from loudspeaker to hand- set, indicator lamp extinguished.
6	Hold ON key depressed, replace handset, release ON key.	Indicator lamp lit. Speech transferred from handset to loudspeaker on release of ON key.
7	Ask test center to talk, then hold MUTE key depressed for 20 seconds and talk.	Speech heard on loudspeaker while key de- pressed. Test center does not hear speech. Operation normal after test.
8	Ask test centre to talk and continue talking while holding ON key depressed for 20 seconds.	Indicator lamp lit but no speech heard by either party. Operation normal after test.
9	Request test center to call back after call terminated, depress OFF key.	Indicator lamp extinguished. No speech on loudspeaker. Ringing heard when test center returns call.
10	Depress line pickup key if telephone set is so equipped. Depress ON key momentarily.	Ringing stops, indicator lamp lit. Speech heard on loudspeaker.
11	Operate HOLD key if telephone set is equipped with it.	Speech no longer heard from loudspeaker, indicator lamp lit, line-hold feature (flashing line lamp) operates in telephone set.
12	Operate line pickup key if telephone set is equipped with it.	Speech heard on loudspeaker, line-hold feature releases in telephone set.
13	Lift handset.	Speech transferred from loudspeaker to hand- set. Indicator lamp extinguished, handset operation normal.
14	Replace handset.	Call terminated.
15	Switch from internal to external microphone if applicable. Dial test center number.	Speech transmission normal.

FAULT INDICATION	ACTION						
Indicator lamp does not light.	Hold ON key depressed. Indicator lamp should light; if not lit:						
	• Check power transformer connections						
	Check power source						
	• Check transformer output.						
	If fault remains, it is a circuit defect. Replace control module.						
No speech or dial tone on loudspeaker.	Lift handset, check for presence of speech. If speech is present:						
	• Check ring and tip connections from telephone						
	• Check that P3 and P4 leads are not shorted						
	 Check connections from acoustic unit to cont module. 						
	If fault remains, replace control module or acoustic unit.						
Indicator lamp is extinguished when transmittin with no receive signal present.	g This is a circuit defect. Replace control module.						
Speech remains on loudspeaker or lamp remains l when handset is lifted.	it Check connections in telephone set. If fault remains replace control module.						
Far-end party hears speech with MUTE key de pressed.	e- Replace control module.						
No receive speech heard with MUTE key depressed	d. Replace control module.						
When ON key is depressed, speech remains o loudspeaker or audio transmission continues.	n Replace control module.						
When OFF key is depressed, indicator lamp remain lit or speech remains on loudspeaker.	Replace control module.						
When OFF key is depressed, indicator lamp remain lit or speech remains on loudspeaker.	as Replace control module.						
If on-hook dialing is provided, dial tone remains o loudspeaker after dialing first digit.	On Check normal handset dialing. Also check tip and ring connections from telephone set to contro module.						
	If fault remains, replace control module.						
On multiline telephone sets equipped with hol feature, hold does not work.	d Check that hold feature works with handset, and check connections in telephone set.						
	If fault remains, replace control module.						
With on-hook dialing, dial pulses heard on loud speaker.	d- Check P3 and P4 connections in telephone set.						
	If fault remains, replace control module.						

CHART 2 FAULT LOCATION GUIDE

1

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TABLE D CONNECTIONS FOR NE-500- TYPE TELEPHONE SETS

				REWIR	, NE-554B‡ ED FOR CONTROL	NE-500R/S NE-500RR (nondial)									
				NE-1A1, NE-1A2 KTS INDIVIDUAL OR BRIDGED CO OR PBX LINE											
L	ITEM	LEAD COLORS	LEAD DESIGNATION	SET TERMINALS	NTWK TERMINALS	SET TERMINALS	NTWK TERMINALS	SET TERMINALS	NTWK TERMINALS						
TELEPHONE SET CONVERSIONS	Line switch leads	(S-W) (S-G)		CI	G	5 C1+	dowla	and the second							
TELEPH	Telephone line leads	(R) (G)	R T		L2 F	ti bas	L2 F	province and run out too ling be	L2 G						
	Dial leads	(W) (W)	Sect.	C2	RR	C2	RR		Hold Hold						
9	CO or PBX Telephone line	(BL-W) (W-BL)	RI TI	op Ac	L2 RR		L2 RR	3 E2							
NE-DI6QD CORD	Automatic cutoff of unit when transfer- ring to handset and key telephone system A lead control	(S-R) (R-S) (BL-BK) (BK-BL)	LK LK1 GND or A1 AG or A	C1 *	G G * or LI §	5 C1 5 6	phony in	4 * E1 5							
	On-hook dialing	(O-R) (R-O) (V-O) (O-V) (BR-Y)	P3 or 1 R P4 or 1T B5 MB5 M5	C3 * C2 C3	С	C3 * C2 C3	C	6 1	V 110M						

			1 a 13		INDIVIDUAL	NE-1A2 KTS OR BRIDGED BX LINE	
i anta y	ITEM	LEAD COLORS	LEAD DESIGNATIONS	SET TERMINALS	NTWK TERMINALS	SET TERMINALS	NTWK TERMINALS
t s	Lattic antitert retter.	(S-W) (S-G)	ener Che	C1+	G	1	0
ELEPHONE SET CONVERSIONS	CO or PBX Telephone line	(G)	T T	1	RR		1 (ht.)
TELEPHONE	NE-35Q3BB1B2. o NE-35Q3LL1L2 DIGITONE dial for on-hook dialing	or (O-BK) (V-W) (V-G) (R) (R-G) (W)	an M	C2	C LI Y R X	2	0
	Telephone line to unit	(BL-W) (W-BL)	RI TI		L2 LI	E2 5	1 194
NE-DI6QD CORD	Automatic cutoff of un when transferring to ha set and key telephone system A lead control		LK LK1 GND or A1 AG or A	CI	G G *	4 * 3 E1 ‡	0 1
NE-DI6	On-hook dialing (when using NE-35Q3B or equivalent dial)	(O-R) (R-O)	P3 or 1R P4 or 1T	C2	*	6 2	

 TABLE E

 CONNECTIONS FOR NE-2500- TYPE TELEPHONE SETS

* Insulate and store.

+ C1. C2. etc., are designations for spare terminals or connectors.

‡ Insulate if not used for A lead control.

§ On-hook dialing not available unless proper DIGITONE dial is used. The NE-2500D telephone set requires a 4-conductor line cord.

** The NE-2500SQA telephone set uses an NE-35Q3L2 DIGITONE dial.

TABLE F CONNECTIONS FOR CONTEMPRA TELEPHONE SETS

				NE-44A OR	QSKI	00A/B, QSK210	0A/B, QSK1911	B, QSK2191B+		
				EQUIVALENT CONNECTING BLOCK IND N TERMINAL TERMINAL 1 2 5 4 * (3 § 1 2 5 4 * (3 § 1 2 5 4 2 5 3 §		OR BRIDGED BX LINE	NE-1A1, NE-1A2 KTS			
	ITEM	LEAD COLORS	LEAD DESIGNATION	TERMINAL	SET TERMINALS	NTWK TERMINALS	SET TERMINALS	NTWK TERMINALS		
TELEPHONE SET CONVERSIONS	Line switch leads	(S) (S-Y) (S-BR)	17 881 - OZD - 16 21 - FR 2501 - FR	- vo	G	L3 G1	G	L3 G1		
	Takepõhoon kon 41. mili 2.	(R) (G)	R T		X ‡ Li	(or C)	X ‡ L1	(or C)		
	External connect- ion with NE-D6QB mounting cord	(Y) (BK)	Al A	-	G * (or Y)		G Y			
	AN ROLL () REMOVEMENT	(W) (BL)	LK1	S S	-	G1		GI		
e	CO or PBX Telephone line	(BL-W) (W-BL)	R1 § T1	· · · · · · · · · · · · · · · · · · ·	X ‡ Li	(or C)	X ‡ L1	(or C)		
NE-D16QD CORD	Automatic cutoff unit when transferring to handset and key telephone system system A lead control	(S-R) (R-S) (BL-BK) (BK-BL)	LK LK1 GND or A1 AG or A	3 5	G G *	GI	G G Y	Gl		
NE	On-hook dialing	(O-R) (R-O)				d ox wax rais	*			

WECTIONS FOR ME 3500. TYPE TELEPHONE SETS

TABLEF

				0. 9499		NE-564H	QAA, BA, C	A, DA, E.	A, FA, GA, J	A§	
				STR	NE-		NE-IAI, NE-IA2 KTS USY LAMP, ADD-ON CK1				
+	STATION BUSY LAM	IP CIRCUIT	OR ADD-ON		NO		YES	2	NO		YES
	Contraction and and and and and and and and and an	182	LEAD DESIGNATIONS	TE	RMINALS	TERMINALS		TE	RMINALS	TERMINAL	
	ITEM	LEAD COLORS		KEY	NTWK	KEY	NTWK	KEY	NTWK	KEY	NTWK
-	Line switch leads	(S-W) (S-G) (S-Y)	80	1B N	12	SG N	L2	IB R	L2	1B R	L2
NE SET SIONS	Hold key leads	(Y) (O-BK+)		R M		R M		M N		MN	
TELEPHONE SET CONVERSIONS	Dial leads	(W) (W)		ON	RR	ON	RR	ON	RR	ON	RR
	Diode Assembly PO522718 or diode NSQ8034L1 (IN4384) for station busy lamp circuit	NE-MIW Cord		(544) 104		041	с с		10 0	I N	
	CO or PBX telephone line	(BL-W) (W-BL)	RI TI	N	RR	N	RR	R	RR	R	RR
NE-DI6QD CORD	Automatic cutoff of unit when transferring to handset and key telephone system A lead control	(S-R) (R-S) (BL-BK) (BK-BL)	LK LKI GND or AI AG or A	1B 1B *	L2	SG SG 1	L2	1B 1B N	L2	1B 1B 1	L2
	On-hook dialing	(O-R) (R-O) (V-O) (O-V) (BR-Y)	P3 or 1R P4 or 1T B5 MB5 M5	ONI * ON ONI	с	ONI * ON ONI	с	ONI * ON ONI	С	ONI * ONI ONI	с

TABLE G CONNECTIONS TO NE-5664- TYPE TELEPHONE SETS

* Insulate and store.

+ In some telephone sets this lead is (Y-BK): NE-564HDRN, HDN, HBRN, NE-554B, NE-565HBRN, HDRN, LBRN, DRN, HQF.

‡ Non-dial telephone sets, dial leads and on-hook dialing do not apply.

§ Connections for the sets using this column are dependant on the vintage of the set wiring, therefore prior to connecting verify that the BL lead (Y-BR) from the telephone set mounting cord is terminated on terminal 1 of the key terminal strip.

TABLE H CONNECTIONS TO NE-2564- TYPE TELEPHONE SETS

			144 1945	STN DUCY LAMBOD ADD ON CVT STN DUCY LAMBOD									
	COLUMNER .	1001	AC		NO		YES		NO	YES			
		IEAD	LEAD DESIGNATIONS	TE	RMINALS	TERMINALS		TERMINALS		TERMINALS			
	ITEM	LEAD COLORS		KEY	NTWK	KEY	NTWK	KEY	NTWK	KEY	NTWK		
-	Line switch leads	(S-W) (S-G)		IB	L2‡	SG	L2‡	IB	L2‡	I B	L2:		
-	Speciel Jack	(S-Y)	1.1	N	arg.	N	Ref.	R		R			
	Hold key leads	(Y) (O-BK)		R M		R M		MN		M N	8		
TELEPHONE SET CONVERSIONS	NE-35Q3B or NE- 35Q3B1 DIGITONE dial for on-hook dialing	(O-BK) (V-W) (V-G)		ONI	C G	ONI	C G	ONI	C G	ONI	C G		
VER	dial for on-hook dialing	(R)			Y	i	Y		Y		Y		
CON	plinep.	(R-G) (W)		011	R X	00	R X	- 69	R X	1.14	R X		
113	Diode assembly PO522718 or diode NSQ8034L1 (IN4334)	NE-MIW Cord		yi R		21 10		N Pl		1			
110	for station busy lamp circuit	12:11		-8		м				N			
	CO or PBX telephone line	(BL-W) (W-BL)	RI TI	N	G	N	G	R	G	R	G		
NE-DI6QD CORD	Automatic cutoff of unit when transferring to	(S-R) (R-S)	LK LK1	IB	L2	SG	L2	18	L2	IB	1.2		
016QE	handset and key telephone system A lead control	(BL-BK) (BK-BL)	BND or AI AG or A	1B .*	140	SG 1	A82	IB N	110	10	462		
NE	On-hook dialing (when using NE-35Q3B or equivalent dial)	(O-R) (R-O)	P3 or 1R P4 or 1T	ONI •	8087.138	ONI *	ON EVIR)	ONI *	sov metek	ONI •	10 D- G M		
	equivalent ular)				, ME	IV RVS			100-1	TI MICT			

to connect the (S-G) line switch lead to the LK1 (R-S) lead.

TABLE I CONNECTIONS TO NE-630- AND NE-2630- TYPE TELEPHONE SETS

				10:00		NE-630.N	E-631.NE	-634,NE-635	TYPES							I. NE-1634. E-2634.NE-		ES	
				08-031	NE-1	A KTS		1	NE-IAI,N	E-1A2 KTS			NE-	IA KTS			NE-IAI.	NE-1A2 KT	rs.
				STN. B	USY LAM	P. ADD-ON	CKT	STN. B	USY LAM	P. ADD-ON	N CKT	STN.	BUSY LA	MP. ADD-C	ON CKT	STN.	BUSY LA	MP. ADD-0	ON CKT
	1 2	2122	- particular	N	0	YE	s	N)	YE	S		NO	1	res	,	NO	1	YES
NS E	ITEM	LEAD	LEAD+	TERMI	NALS	TERMI	NALS	TERMI	NALS	TERMI	INALS	TERM	INALS	TERN	AINALS	TERM	INALS	TERN	MINALS
PHONE IET ERSIONS		COLORS	DESIGNATIONS	BOARD	NTWK	BOARD	NTWK	BOARD	NTWK	BOARD	NTWK	BOARD	NTWK	BOARD	NTWK	BOARD	NTWK	BOARD	NTW
TELEPHONE SET CONVERSIONS				Use X wiring				Use Z wiring Use X and Y wiring			Use X wiring							ise X and Y wiring	
	CO or PBX Telephone line	(BL-W) (W-BL)	RI TI	1	RR	1 I.	RR	1	RR	1	RR	2 10		2 10		2 10		2 10	
16QD CORD	Automatic cutoff of unit when transferring to hand- set and key telephone system A lead control	(S-R) (R-S) (BL-BK) (BK-BL)	LK LK1 GND or A1 AG or A	•	LI L2	•	L1 L2	•	LI G	4	LI L2	9 • 1 6	624	9 • 1 6		9 • 1 6	ie I	9 • 1 5	
NE-D	On-hook dialing	(O-R) (R-O)	P3 or 1R P4 or 1T	WBB		W BB		W BB	<5	W BB		11		11		11		11	

+ These leads may terminate on terminals other than those listed in this table depending on the vintage of the telephone set. Refer to the

wiring diagram for the telephone set.



TABLE JCONNECTIONS FOR STROMBERG-CARLSON SINGLE-LINE TELEPHONE SETS •

				5	S-C 500D.	S-C 5	54B+		S-C 25	00D+	+		S-C 2	554B‡	
							L OR BR		D	NE	IAI, NE	1A2 0	REQUIN	ALEN	T KTS
					ROM MINALS	TER	TO MINALS		ROM MINALS		TO MINALS		ROM MINALS	TER	TO MINALS
	ITEM	LEAD COLORS	LEAD DESIGNATIONS	SET	NTWK	SET	NTWK	SET	NTWK	SET	NTWK	SET	NTWK	SET	NTWK
L	Line switch leads	(S-W)** (S-G)			F LI	C1+	G	1	LI	CI	LI		G	3	
TELEPHONE SET CONVERSIONS	Telephone line leads	(R) (G)	R T		LI		L2 F		LI	ł	L2	1		2	G
	Dial leads	(W) (W)	1		GN R	C2	RR				1		1		
	A Control leads	-	A Al		1	n	LI § G §	10		C2 §	LIS				LI š G š
NE-DI6QD CORD	CO or PBX line	(BL-W) (W-BL)	RI TI			101	L2 RR	-	1	1	1.2		10	2 3	
	Automatic cutoff of unit when transferring to handset, and key telephone system A lead control	(S-R) (R-S) (BL-BK) (BK-BL)	LK LKI GND or A1 AG or A			CI •	G G or LI §	6 . 6 . 8 . 6 . 7		C1 * or C2 §	LI	and and a		3 1 3 *	or Li š
NE-DI	On-hook dialing	(O-R) (R-O) (V-O) (O-V)	P3 or 1R P4 or 1T B5 MB5		ANY AND HE CONTROLLS	C3 *	с		a tar	•					k fridasi k Jan aktir Listasi Mili

[‡] On-hook dialing not available.

§ Used only when A lead control is required.

** On the S-C 2554B telephone set these colors are (W) and (G).

++ On-hook dialing not available unless an NE-35Q3B or equivalent DIGITONE dial is used.

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						704-6A, 1 04-12A, 1					, 1704-6AT, 1704-6BT 1704-12AT, 1704-12BT ‡			
					1	S-C 1 A2,	NE-IA	I, NE-1 A2	OR EQUI	VALENT KTS				
				STATI	ON BU	SY LAM	PCIRC	CUIT	STATI	ON BU	SY LAM	P CIRC	CUIT	
		64	Re Transition			NO		'ES			NO	1	YES	
	10 C C C	IFID	LEAD		TERMINALS TERMINALS			TER	MINALS	TERM	MINALS			
ing or	ITEM	LEAD COLORS	DESIGNATIONS	FROM	KEY	NTWK	KEY	NTWK	FROM	KEY	NTWK	KEY	NTWK	
u pre sir ng resort	Line switch leads	(S-Y) (S-W) (S-G)	uk 101 For Ali	F 19-20 24	20 C1+	c	20 C1	с	19-20 24	19-20 C1		19-20 Cl		
INE SET	Key leads	(Y) (BL)	20	LI C		F Ll		F LI		1				
TELEPHONE SET CONVERSIONS	Dial leads	(W) (W)	er.	GN R	C2	RR	C2	RR		04				
	Diode assembly PO522718 or diode NSQ8034L1 (1N4384) for station busy lamp			¥ 200	G	11.8	1 24					1 24		
and be	CO or PBX line	(BL-W) (W-BL)	RI TI			LI RR		LI RR		3.6	C LI		C LI	
NE-DI6QD CORD	Automatic cutoff of unit when transferring to handset, and key telephone system A lead control	(S-R) (R-S) (BL-BK) (BK-BL)	LK LK1 GND or A1 AG or A	L. M. A.R.	20 C1 20 24	0. 10.160	20 C1 20 I	n k k	4.1 R . 251	19-20 C1 19-20 24	er ala	19-20 C1 19-20 I		
Z	On-hook dialing	(O-R) (R-O) (V-O) (O-V) (BR-Y)	P3 or 1R P4 or 1T B5 MB5 M5	OM SNULS	C3 * C2 C3	с	C3 • C2 C3	с				•	17 A 4 	

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• Not required by Bell Canada

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TABLE L CONNECTIONS FOR ITT KELLOGG SINGLE-LINE TELEPHONE SETS ⊡

			ta pa tera sentenga d		K-500, I	K-554	\$		K-25	00 + +			K-25	54 ‡	
			Narial Au Volte (200				INDIVID AI, K-IA								
	geralet stape	-	ALL		ROM MINALS		TO MINALS		ROM MINALS		TO MINALS		ROM MINALS		TO MINALS
	ITEM	LEAD COLORS	LEAD DESIGNATIONS	SET	NTWK	SET	NTWK	SET	NTWK	SET	NTWK	SET	NTWK	SET	NTWK
	Line switch leads	(S-W)** (S-G)	ana ing		F Ll	C1+	G		F Ll	CI	G		G	3 1	
TELEPHONE SET CONVERSIONS	Telephone line leads	(R) (G)	R T				L2 F		LI		L2 F	1	1 n	2	G
CONVE	Dial leads	(W) (W)			GN R	C2	RR								
	A Control leads		A Al			6	L1 § G §				LI § G §			3\$	CI§
	CO or PBX line	(BL-W) (W-BL)	RI TI		L D		L2 RR		in l		L2 F			2	G
6QD C	Automatic cutoff of unit when transferring to handset and key	(S-R) (R-S) (BL-BK)	LK LK1 GND or A1		24 18-50 3	CI	G G	C1 54		CI	G G		C) 858	3 1 3	or C1 §
NE-DI	telephone system A lead control	(BK-BL)	AG or A	ROMA C	11000	* or L1 §	MALINIK 1	CEA 8	Let I	*or LI §	angs pi	Law	era veza		ortis
	On-hook dialing	(O-R) (R-O) (V-O) (O-V)	P3 or 1R P4 or 1T B5 MB5			C3 * C2	с	63 N 948 618		•	ALE DI PRESS		S Y HI I I I	•	
		(BR-Y)	M5			C3								-	

++ On-hook dialing not available unless an NE-35Q3B or equivalent DIGITONE dial is used.

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			NNECTIONS PUSHBUTT	FOR	ABLE ITT F IAL 1	KELLO	OGG PHO	MUL NE SE	TILINI TS 🖸	Е			
						- 10		2564 (B/ 2564 (B/	A) 30/40M A) 30/40M			la La	
				NE-I	A OR E	EQUIVAI	LENTI	CTS	and the second	and the second s	2, NE-1A	a series and a series of the	
				STAT	ION BU	SY LAM	PCIR	CUIT	STATI	ION BU	SY LAM	PCIR	CUIT
		1				NO		YES			NO		YES
101.1		LEAD	LEAD	4	TER	MINALS	TER	MINALS		TER	MINALS	TER	MINALS
	ITEM	COLORS	DESIGNATIONS	FROM	KEY	NTWK	KEY	NTWK	FROM	KEY	NTWK	KEY	NTWK
1444	Line switch leads	(S-W) (S-G) (S-Y)		1B N 9	IB N	LI	SG N	LI	1B N 9	1B 9	LI	1B 9	LI
NE SET	Hold key leads	(Y) (O-BK)	in	M N	9 M		9 M		M N	MN		MN	
TELEPHONE SET CONVERSIONS	Dial leads	(W) (W)	R	GN 8		RR 8		RR R	GN 8	10	RR 8		RR
FU	Diode assembly PO522718 or diode NSQ8034L1 (1N4384) for station busy lamp	NE-M1W Cord		10 10		и 9		80	n	中国語		N	L2 G
A	CO or PBX line	(BL-W) (W-BL)	RI TI	1.00	N	F	N	F	ALC: C	9	F	9	F
NE-DI6QD CORD	Automatic cutoff of unit when transferring to handset, and key telephone system A lead control	(S-R) (R-S) (BL-BK) (BK-BL)	LK LK1 GND or A1 AG or A	2.0	1B 1B *	LI	SG SG	LI L2	2	IB IB N	LI	IB IB N	LI
	On-hook dialing	(O-R) (R-O) (V-O) (O-V) (BR-Y)	P3 or 1R P4 or 1T B5 MB5 M5	14	7 * 8 7	с	7 * 8 7	с	(g-v)	7 * 8 7	с	7 • 8 7	c

.

[7] Not received by field

TABLE N CONNECTIONS FOR ITT KELLOGG MULTILINE ROTARY DIAL TELEPHONE SETS •

									a) 30/40M+ a) 30/40M+				
				NE-1	A OR E	QUIVAL	ENT F	KTS .			2, NE-1A IVALEN		
				STATI	ON BU	SY LAM	P CIRC	CUIT	STATI	ON BU	SY LAM	PCIR	CUIT
						NO	1	YES	1 10	1	NO		YES
	8	IFID	LEAD		TERM	MINALS	TER	MINALS		TER	MINALS	TER	MINALS
	ITEM	LEAD COLORS	LEAD DESIGNATIONS	FROM	KEY	NTWK	KEY	NTWK	FROM	KEY	NTWK	KEY	NTWK
SET	Line switch leads	(S-W) (S-G) (S-Y)	N	1B N 9	1B N	LI	SG N	LI	1 B N 9	1B 9	LI	1B 9	LI
TELEPHONE SET CONVERSIONS	Hold key leads	(Y) (O-BK)		M N	9 M		9 M	0.4	M N	M N	N.W.	MN	
TELL	Dial leads	440		11		1.1		И	14				
	Diode assembly PO522718 or diode NSQ8034L1 (1N4384)	NE-M1W Cord		4 10 10		20 20	0	* 11	-		10		L2
	for station busy lamp	Conversion of the second		avon	1. 102.	R FEA	mail	1.30016	REAL MR	A.M. 178	- HE-MAR	N	G
	CO or PBX line	(BL-W)	RI	-	N	ni sun	N	1	12 control	9	Contract 1	9	
CORD		(W-BL)	ті	31713004	en en e	F		F	DN ALEONE HER	WINGS C	F		F
NE-DI6QD CORD	Automatic cutoff of unit when transferring to handset, and key telephone system A lead control	(S-R) (R-S) (BL-BK) (BL-BK)	LK LK1 GND or A1 AG or A1	HE-IY O	1B 1B *	LI	SG SG	LI L2	n minatr M	1B 1B N	LI	1B 1B N	,LI

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			are be purpled to a	E	QUIPPI	ED WITH	2	2564 (BA 2564 (BA 5Q3B DIG		IAL OR	EQUIV	ALENT	
			21	NE-1	A OR E	QUIVAL	ENT N	KTS .			2, NE-1A		
				STATI	ON BU	SY LAM	PCIRC	CUIT	STATI	ON BU	SY LAM	P CIR	CUIT
				iic		NO	1	YES			NO		YES
5	and control	IEAD	LEAD		TER	MINALS	TERM	MINALS		TER	MINALS	TER	MINALS
	ITEM	LEAD COLORS	DESIGNATIONS	FROM	KEY	NTWK	KEY	NTWK	FROM	KEY	NTWK	KEY	NTWK
	Line switch leads	(S-W) (S-G) (S-Y)	6 DD 6 TX	IB N 9	IB N	LI	SG N	LI	1B N 9	1B 9	LI	1B 9	LI
E SET ONS	Hold key leads	(G) (Y) (O-BK)	NYI LI BAJ IA	F M N	9 M	RR	9 M	RR	F M N	M N	RR	MN	RR.
TELEPHONE SET CONVERSIONS	NE-35Q3B or equiva- lent DIGITONE dial for on-hook dialing	(O-BK) (V-W) (V-G) (R) (R-G) (W)			7 M 2 1	C R	7 8 2 1	C R		7 8 2 1	C R	7 8 2 R 1	с
	Diode assembly PO522718 or diode NSQ8034L1 (1N4384) for station busy lamp	NE-MIW Cord	D RING	1305(2)	816.2	TO Kilanak	263	994.40	8 88.1	ie Koa	с У 32	N	L2 G
٩	CO or PBX line	(BL-W) (W-BL)	RI TI		N 8	INAL S	N 8	000000000		9 8	3 12	9 8	912
NE-DI6QD CORD	Automatic cutoff of unit when transferring to handset, and key telephone system A lead control	(S-R) (R-S) (BL-BK) (BK-BL)	LK LK1 GND or A1 AG or A		1B 1B *	LI	SG SG	LI L2	lio-aeb M	IB IB N	LI	1B 1B	L1 L2
_	On-hook dialing	(O-R) (R-O)	P3 or 1R P4 or 1T	e ure i	7 •	1.03	7	180.0		7	10.00	7	

TABLE O CONNECTIONS FOR ITT KELLOGG MULTILINE PUSHBUTTON DIAL TELEPHONE SETS, e/w NE-35Q3B DIGITONE DIAL ⊡

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TABLE P CONNECTIONS FOR AUTOMATIC SINGLE-LINE TELEPHONE SETS •

				W	TYI ITH RO	PE 80 FARY	DIAL	W	TYPE		
				1.0	INDIVID	DUAL	OR BRID	GED	CO OR P	BX LI	NE
diff.		1.01	· · · · · · · · · · · · · · · · · · ·	F	ROM		то	F	ROM		то
	CO = P8X n=	LEAD	LEAD	TERMINALS		TER	MINALS	TER	MINALS	TER	MINAL
	ITEM	COLORS	DESIGNATIONS	SET	NTWK	SET	NTWK	SET	NTWK	SET	NTWK
E SET ONS	Line switch leads	(BK) (Y)			10 11	C1 † C2			10 11	C1 C2	1
TELEPHONE SET CONVERSIONS	Jumper or NE-M1W cord	- (80 14-59 14-59		3 H. J.			10 11				10 11
TEL	Dial leads	(W)			2	C3					i i
12.00	CO or PBX line	(BL-W) (W-BL)	RI TI	6	BX		1 8	99 1	14	10 8	1
NE-DI6QD CORD	Automatic cutoff of unit when transferring to handset, and key telephone system A lead control	(S-R) (R-S) (BL-BK) (BK-BL)	LK LK1 GND or A1 AG or A	100	TS SLAR	C2 C1 C2 *		in 18 ID-IN	18 18 15:1 14:1	C2 C1 C2 *	
N	On-hook dialing	(O-R) (R-O) (V-O) (O-V) (BR-Y)	P3 or 1R P4 or 1T B5 MB5 M5	504 JU		* C4 C3 C4	2	23.411	en Excerni Eccoler		AP2 Micriti

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TABLE QCONNECTIONS FOR AUTOMATIC ELECTRIC MULTILINE ROTARY DIAL TELEPHONE SETS •

						AE-1	0A1, A	E-10A2, N	E-1A1, NE	E-1A2 K	TS		
				STN. I	BUSY L	AMP, AE	D-ON	СКТ	STN. E	BUSY L	АМР, АБ	D-ON	скт
						NO		YES	and part to be the		NO		YES
					TER	MINALS	TER	MINALS		TER	MINALS	TER	MINA
a specie	ITEM	LEAD COLORS	LEAD DESIGNATIONS	FROM	KEY	NTWK	KEY	NTWK	FROM	KEY	NTWK	KEY	NTW
	Line switch leads	(BK) (Y) (W)	De gr	R 11 N	A C1†	2	A Cl	2	N 11 M	A Cl	2	A CI	2
TELEPHONE SET CONVERSIONS	Jumper or NE-MIW cord	(BL)		A 2	R	11	R	11	A 2	N	11	N	11
LEPH	Dial leads	(W)		2	C2		C2		2	C2		C2	18
TEI	Diode assembly PO522718 or diode NSQ8034L1 (1N4384) for station busy lamp	Calif Venica (conce Nervi	ICENSION T	N NON	en es Milos	11.168	RC N	MLR	1.69	and a	107-	RC M	(C)
Q	CO or PBX line	(BL-W) (W-BL)	RI TI		A	w.	A	1.000		A	3.0 ⁻¹ CPU	A	1
NE-DI6QD CORD	Automatic cutoff of unit when transferring to handset, and key telephone system A lead control	(S-R) (R-S) (BL-BK) (BK-BL)	LK LK1 GND or A1 AG or A	SIN ALS	IB CI IB N	2. TVN 9.	1B Cl 1B RC	l, Aleyi Krunt Yezi	11 V3' V6-1	1B Cl IB M	1973 1973 1973	1B C1 1B RC	6 (1)
	On-hook dialing	(O-R) (R-O) (V-O) (O-V) (BR-Y)	P3 or 1 R P4 or 1 T B5 MB5 M5	n grwed	* C3 C2 C3	2	* C3 C2 C3	2	9001 C1	* C3 C2 C3	2	• C3 C2 C3	2

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TABLE R CONNECTIONS FOR AUTOMATIC ELECTRIC MULTILINE PUSHBUTTON DIAL TELEPHONE SETS •

					4	ТҮРЕ	186 W	ітн тоц	CH CALLI	NG UN	IT ‡		
				ARRAN		OR HOL		Y AND	ARRAM	NGED F	OR 6 PI	CKUP	KEYS
					. 14	AI	E-10A1	, AE-10A2	, NE-IAI,	NE-1A2	50		
				STAT	ON BU	SY LAM	PCIR	CUIT	STATI	ON BUS	SY LAMP	CIRC	UIT
						NO		YES		STATION BUSY LAMI NO TERMINALS FROM KEY NTWK M C1			YES
	20 - MDC -	- 10	6.960 L. 10.764		TER	MINALS	TER	MINALS		TER	MINALS	TERM	MINALS
TELEPHONE SET CONVERSIONS	ITEM	LEAD COLORS	LEAD DESIGNATIONS	FROM	KEY	NTWK	KEY	NTWK	FROM	KEY	NTWK	KEY	NTWK
	Line switch leads	(W)		N	C1 +		Cl		М	C1	35	CI	
	Diode assembly		(85.)		0		RC		2 10		0	RC	
	PO522718 or diode NSQ8034L1 (1N4384) for station busy lamp	pittan, 1	813	N N	<i>R</i>	- (1	N	21	3 7 8	8	le.	м	
	CO or PBX line	(BL-W) (W-BL)	R1 T1		R A	-	R A		N	N A		N A	
NE-DI6QD CORD	Automatic cutoff of unit when transferring to handset, and key telephone system A lead control	(S-R) (R-S) (BL-BK) (BK-BL)	LK LK1 GND or A1 AG or A	8 1508	1B C1 1B N	NULLER SIGNATOR	1B Cl 1B RC	itan a alama	annet kran 1.6	1B C1 1B M	E KYA	1B C1 1B RC	
Z	On-hook dialing	(O-R) (R-O)	P3 or 1R P4 or 1T	110		NOR YO			L ELVE IVAN		1010-Ok	*	

IABLE Q WECTIONS FOR AUTOMATIC ELECTRIC MULTILINE ROTARY DIAL TELEPHONE SETS (

• Not required by Bell Canada

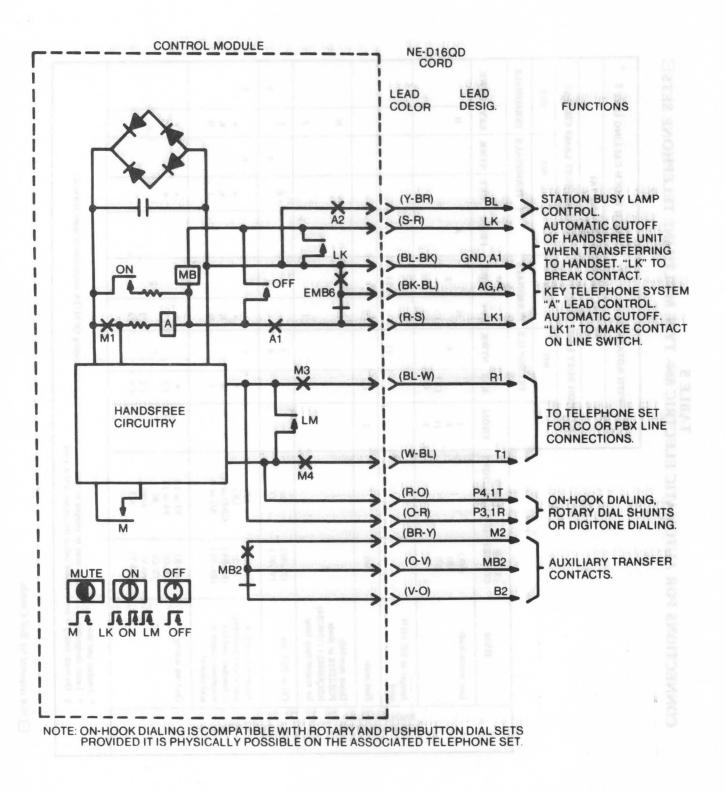
TABLE S
CONNECTIONS FOR AUTOMATIC ELECTRIC 860- TYPE MULTILINE TELEPHONE SETS .

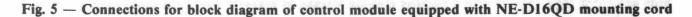
			Diver Diver	223	WITH I	ROTARY		AE-1042	WITH	-	H CALLI	NG UI	т ‡
			1910	STAT	ION BU	SY LAM		1000		1	SY LAM	PCIR	CUIT
			818	833		NO		YES			NO		YES
ca.			A 4		TER	MINALS	TER	MINALS	1	TER	MINALS	TER	MINALS
36 14	ITEM	LEAD COLORS	LEAD DESIGNATIONS	FROM	KEY	NTWK	KEY	NTWK	FROM	KEY	NTWK	KEY	NTWK
0407710	Line switch leads	(BK) (R) (O) (Y)		J E 11 §	J C1+ C1	8	H Cl Cl	8	J	Did .		н	
TELEPHONE SET CONVERSIONS	Jumper or NE-M1W cord	E. R. J	지 시간		F	11	E	11	A	2		-	Ē
EPHC	Dial leads	(W)		2	C2		C2		40				
TEL	Diode assembly PO522718 or diode NSQ8034L1 (1N4384) for station busy lamp		-	1.00			н		1	k		н J	
RD	CO or PBX line	(BL-W) (W-BL)	RI TI	_n.		1 8	k.	1 8		E	8	E	8
NE-DI6QD CORD	Automatic cutoff of unit when transferring to handset, and key telephone system A lead control	(S-R) (R-S) (BL-BK) (BK-BL)	LK LK1 GND or A1 AG or A		* K J	6	• К Н	6		* K J	6	* K H	6
	On-hook dialing	(O-R) (R-O) (V-O) (O-V) (BR-Y)	P3 or 1R P4 or 1T B5 MB5 M5	THO PLACE	* C3 C2 C3	2	• C3 C2 C3	2		-		:	

[‡] On-hook dialing is not available unless the proper dial is used.

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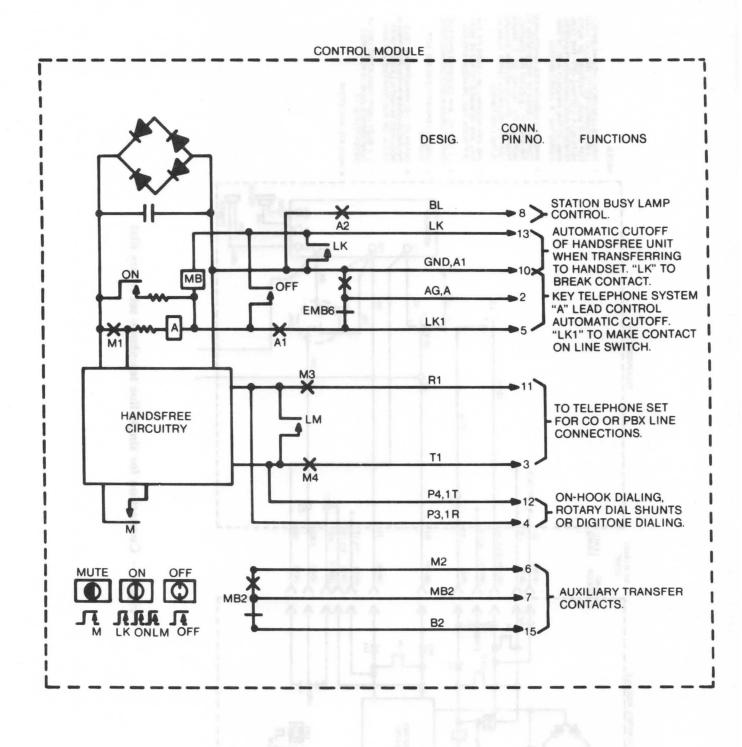
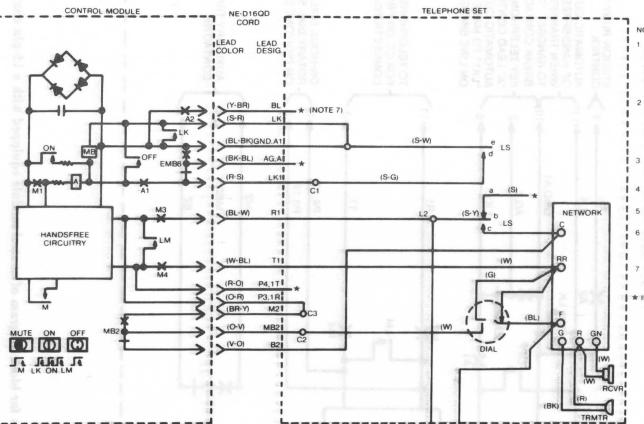


Fig. 6 - Connections for block diagram of control module equipped with a 15-pin connector



NOTES:

- 1 THE (S-G) LEAD FROM THE LINE SWITCH LS IS CONNECTED TO THE LK1 LEAD FOR THE DUAL PURPOSE OF AUTO-MATICALLY CUTTING OFF THE CON-FERENCE 2000 UNIT WHEN TRANSFER-RING TO THE "ANDSET AND OF PRO-VIDING THE "A" LEAD CONTROL
- 2 WHEN*A*LEAD CONTROL IS REQUIRED CONNECT LEADS OF THE SYSTEM TO THE A AND A1 LEADS OF THE CONTROL MODULE BY MEANS OF A SPARE TERMINAL OR CONNECTOR ENSURE THAT d-e RELEASES LATER THAN b-c IN THE LINE SWITCH
- 3 THE OFF-NORMAL (W) LEADS OF THE DIAL ARE REWIRED TO SERVE BOTH OFF-HOOK AND ON-HOOK DIALING
- 4 C1. C2. ETC. ARE DESIGNATIONS FOR SPARE TERMINALS OR CONNECTORS
- 5 RINGER CONNECTIONS ARE NOT SHOWN.
- 6 REFER TO THE APPROPRIATE TELE-PHONE DIAGRAM WHEN REWIRING IS REQUIRED IN INSTALLATION OR RE-MOVAL OF THE CONFERENCE 2000
- 7 IF A BUSY LAMP (INDICATING USE OF CONFERENCE 2000) IS REQUIRED. REFER TO FIG. 17
- * INSULATE AND STORE

Fig. 7 -Connection for single-line telephone set rotary dial

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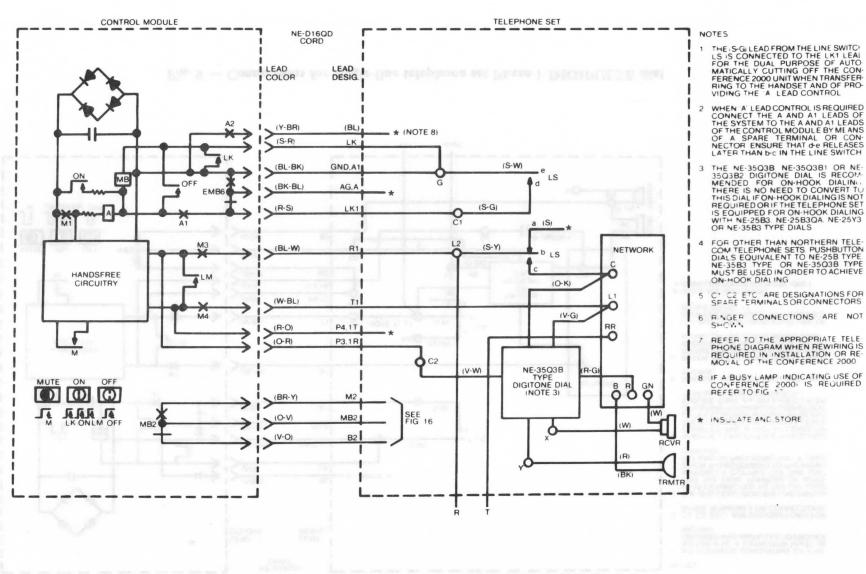


Fig. 8 — Connections for single-line telephone set DIGITONE dial

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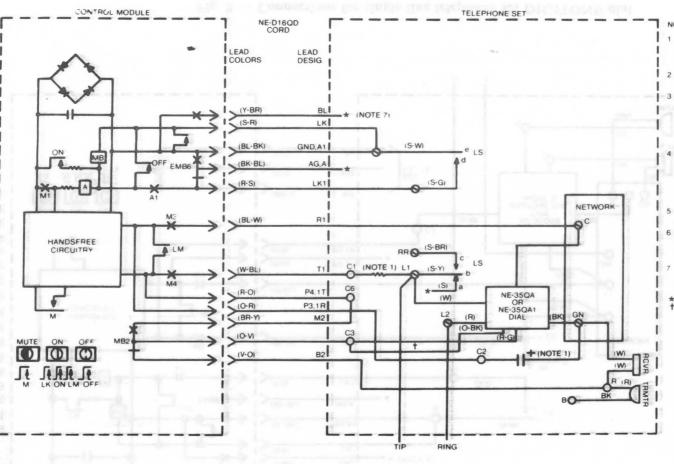
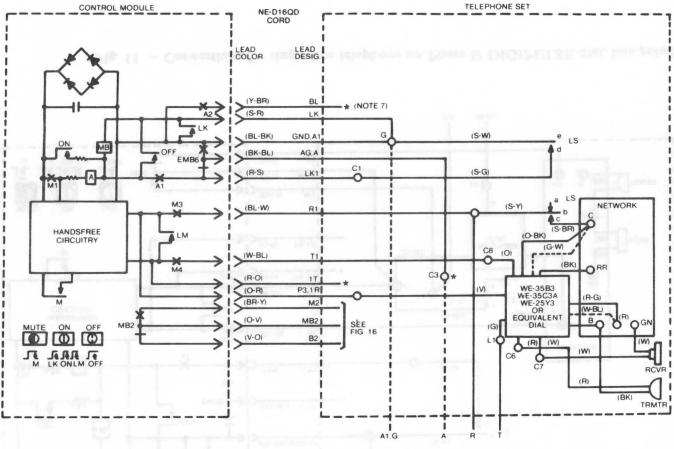


Fig. 9 - Connections for single-line telephone set Phase 1 DIGIPULSE dial

- NOTES: 1 KIT PO565022, CONS
- 1 KIT PO565022, CONSISTING, OF A RE-SISTOR AND A CAPACITOR MUST BE ORDERED AND INSTALLED TO PROVIDE MUTING.
- 2 C1. C2. ETC. ARE DESIGNATIONS FOR SPARE TERMINALS OR CONNECTIONS.
- 3 THE (S-G) LEAD FROM THE LINE SWITCH LS IS CONNECTED TO THE LK1 LEAD FOR THE DUAL PURPOSE OF AUTO-MATICALLY CUTTING OFF THE UNIT WHEN TRANSFERRING TO THE HAND-SET AND OF PROVIDING THE "A" LEAD CONTROL
- 4 WHEN"A" LEAD CONTROL IS REQUIRED CONNECT THE A AND A1 LEADS OF THE SYSTEM TO THE A AND A1 LEADS OF THE CONTROL MODULE BY MEANS OF A SPARE TERMINAL OR CONNECTOR ENSURE THAT d-e RELEASES LATER THAN b-C IN THE LINE SWITCH
- 5 RINGER CONNECTIONS ARE NOT SHOWN.
- 6 REFER TO THE APPROPRIATE TELE-PHONE DIAGRAM WHEN REWIRING IS REQUIRED IN INSTALLATION OR RE-MOVAL OF THE CONFERENCE 2000

7 IF A BUSY LAMP (INDICATING USE OF CONFERENCE 2000) IS REQUIRED. REFER TO FIG: 17

* INSULATE AND STORE † (O-BK) LEAD ON NE-35QA DIAL ONLY



NOTES

1. THE (S-G) LEAD FROM THE LINE SWITCH LS IS CONNECTED TO THE LKI LEAD FOR AUTOMATIC CUTOFF OF THE UNIT WHEN TRANSFERRING RING TO THE HANDSET

2. THE AG LEAD IS CONNECTED ONLY WHEN REQUIRED AS IN THE NE-1A1. NE-1A2 OR EQUIVALENT KEY TELE-PHONE SYSTEMS.

3. THIS ILLUSTRATES THE USE OF THE WE-35B3. WE-35C3A. WE-25Y3. OR OTHER EQUIVALENT PUSHBUTTON DIAL FOR ON-HOOK DIALING. THE WE-35C3A. WE-25Y3 OR EQUIVALENT TYPES HAVE TWO ADDITONAL LEADS SHOWN IN DOTTED LINES.

4 C1. C2 ETC ARE DESIGNATIONS FOR SPARE TERMINALS OR CONNECTORS

5. RINGER OR CONNECTIONS ARE NOT SHOWN

6. REFER TO THE APPROPRIATE TELE-PHONE DIAGRAM WHEN REWIRING IS REQUIRED IN INSTALLATION OR RE-MOVAL OF THE CONFERENCE 2000

7 IF A BUSY LAMP (INDICATING USE OF CONFERENCE 2000) IS REQUIRED REFER TO FIG 17

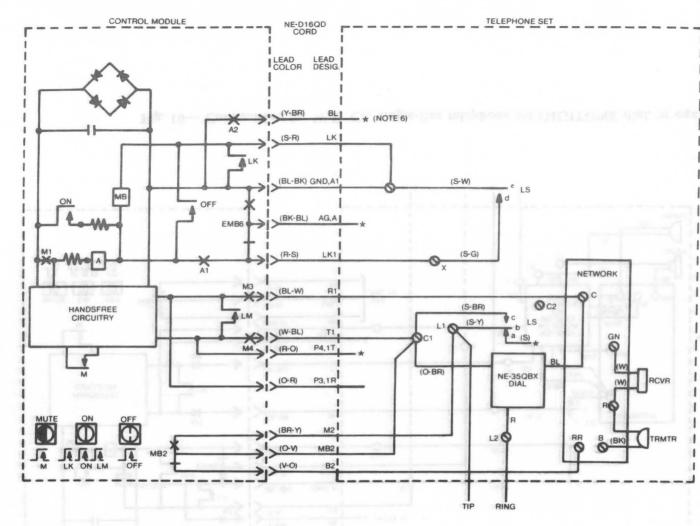
* INSULATE AND STORE

Fig. 10- Connections for W.E. Co. single-line telephone set DIGITONE dial, or equivalent 🖸

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NOTES:

CONTROL.

3.

5

6

1. C1, C2, ETC., ARE DESIGNATIONS FOR SPARE TERMINALS OR CONNECTIONS.

2. THE S-GLEAD FROM THE LINE SWITCH LS IS CONNECTED TO THE LK1 LEAD FOR THE DUAL PURPOSE OF AUTO-MATICALLY CUTTING OFF THE UNIT WHEN TRANSFERRING TO THE HAND-SET AND OF PROVIDING THE "A" LEAD

WHEN"A" LEAD CONTROL IS REQUIRED CONNECT THE A AND A1 LEADS OF

THE SYSTEM TO THE A AND A1 LEADS

OF THE CONTROL MODULE BY MEANS OF A SPARE TERMINAL OR CONNECTOR ENSURE THAT d-e RELEASES LATER

RINGER CONNECTIONS ARE NOT

REFER TO THE APPROPRIATE TELE-PHONE DIAGRAM WHEN REWIRING IS REQUIRED IN INSTALLATION OR RE-MOVAL OF THE CONFERENCE 2000.

IF A BUSY LAMP (INDICATING USE OF CONFERENCE 2000) IS REQUIRED, REFER TO FIG. 17.

* INSULATE AND STORE

THAN b-c IN THE LINE SWITCH.

CONTROL MODULE TELEPHONE SET NE-D16QD CORD Ø LEAD LEAD OC1 COLOR DESIG. OC2 OC3 ۷Ø (Y-BR) BL 0 * (NOTE 8) A2 (S-R) LK (BK-BL) AG.A 1B (S-W) LS d (BL-BK) GND.A1 OFF EMB L2 LK1 (S-G) (R-S) M (BL-W) R1 (S-M) NETWORK LS R HANDSFREE M (O-BK) T1 (W-BL (V-G) M4 P4.1T RR (R-O) 0 (O-R) P3,1R ONI M2 2 (BR-Y) (V-W) (R-G) NE-35Q3B DIGITONE 10-V MB2 SEE MB2 FIG. 16 DIAL GN (V-O) B2 I (NOTE 3) Q C 0 BR (W 0(R) (W) ራ × (R) RCVR LINE PICK UP KEY . . TRMTR

Fig. 12 - Connections for multiline key telephone set DIGITONE dial

NOTES

1 10

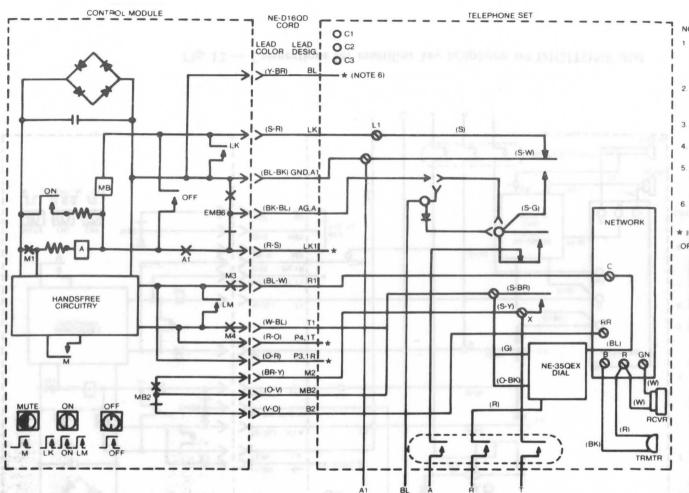
THE IS-GILEAD FROM THE LINE SWITCH LS IS CONNECTED TO THE LK1 LEAD FOR AUTOMATIC CUTOFF OF THE CON-FERENCE 2000 UNIT WHEN TRANS-FERRING TO THE HANDSET

- 2. THE AGLEAD IS CONNECTED (THROUGH A DIODE IN THE CASE OF STATION BUSY LAMP IN THE NETA1 OR 1A2 KTS) TO THE "A" LEAD OF THE SYSTEM
- 3 THE NE-3503B. NE-3503B1 OR NE-3503B2 DIGITONE DIAL IS RECOM-MENDED FOR ON-HOOK DIALING THERE IS NO NEED TO CONVERT TO THIS DIAL IF ON-HOOK DIALING IS NOT REQUIRED OR IF THE TELEPHONE SET IS EQUIPPED FOR ON-HOOK DIALING WITH NE-25B3. NE-25B30A. NE-25Y3. NE-35B3 OR NE-3503J DIALS THE NE-3503J HAS TWO EXTRA LEADS
- 4 IN SOME TELEPHONE SETS THE BUSY LAMP BL LEAD MAY BE PERMANENTLY WIRED TO TERMINAL L2 USE A SPARE TERMINAL OR OCM12A CONNECTOR TO CONNECT IS OLINE SWITCH LEAD TO (R-S) LK1 LEAD
- 5. C1. C2. ETC ARE DESIGNATIONS FOR SPARE TERMINALS OR CONNECTORS
- 6. RINGER CONNECTIONS ARE NOT SHOWN
- 7 REFER TO THE APPROPRIATE TELE-PHONE DIAGRAM WHEN REWIRING IS REQUIRED IN INSTALLATION OR RE-MOVAL OF THE CONFERENCE 2000
- 8. IF A BUSY LAMP (INDICATING USE OF CONFERENCE 2000) IS REQUIRED. REFER TO FIG 17

OPTIONS.

Z FACTORY WIRED FOR NE-1A1 OR 1A2 WITHOUT STATION BUSY LAMP

Y, DIODE AND BL LEAD REWIRED FOR STATION BUSY LAMP



NOTES:

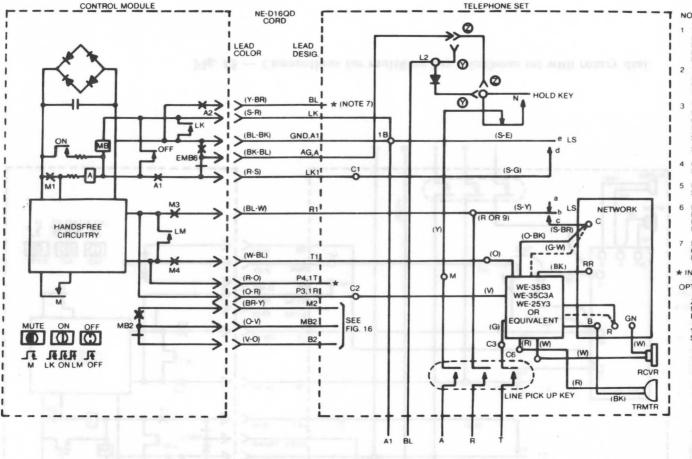
- 1 THE (S-G) LEAD FROM THE LINE SWITCH LS IS CONNECTED TO THE LK1 LEAD FOR AUTOMATIC CUTOFF OF THE CONFERENCE 2000 UNIT WHEN TRANSFERRING TO THE HANDSET
- 2. THE AG LEAD IS CONNECTED (THROUGH A DIODE IN THE CASE OF STATION BUSY LAMP IN THE NE-1A1 OR -1A2 KTS) TO THE "A" LEAD OF THE SYSTEM
- 3. C1. C2, ETC. ARE DESIGNATIONS FOR SPARE TERMINALS OR CONNECTORS.
- 4. RINGER CONNECTIONS ARE NOT SHOWN.
- 5. REFER TO THE APPROPRIATE TELE-PHONE DIAGRAM WHEN REWIRING IS REQUIRED IN INSTALLATION OR RE-MOVAL OF THE CONFERENCE 2000
- 5. IF A BUSY LAMP (INDICATING USE OF CONFERENCE 2000) IS REQUIRED. REFER TO FIG. 17.

* INSULATE AND STORE

- OPTIONS:
 - Z FACTORY WIRED FOR NE-1A1 OR 1A2 WITHOUT STATION BUSY LAMP
 - IN DIAGRAM THE RING OR PICK-UP LEAD IS DISCONNECTED FROM R TERMINAL AND CONNECTED TO R LEAD OF DIAL

ALSO DISCONNECT THE TIP PICK-UP KEY FROM X TERMINAL AND CONNECT TO L2

Fig. 13 - Connections for multiline key telephone set Phase II DIGIPULSE dial, less polarity guard



NOTES

4

1 8 12

THE (S-G) LEAD FROM THE LINE SWITCH LS IS CONNECTED TO THE LK1 LEAD FOR AUTOMATIC CUTOFF OF THE CON-ERENCE 2000 UNIT WHEN TRANSFER-RING TO THE HANDSET

THE AG LEAD IS CONNECTED (THROUGH A DIODE IN THE CASE OF STATION BUSY LAMP IN THE NE-1A1 OR -1A2 KTS) TO THE A LEAD OF THE SYSTEM

3 THIS ILLUSTRATES THE USE OF THE WE-35B3 WE-35C3A, WE-25Y3, OR OTHER EQUIVALENT PUSHBUTTON DIAL FOR ON-HOOK DIALING, THE WE-35C3A, WE-25Y3 OR EQUIVALENT TYPES HAVE TWO ADDITONAL LEADS SHOWN IN DOTTED LINES.

4 C1 C2 ETC ARE DESIGNATIONS FOR SPARE TERMINALS OR CONNECTORS

5 RINGER OR CONNECTIONS ARE NOT SHOWN

6 REFER TO THE APPROPRIATE TELE-PHONE DIAGRAM WHEN REWIRING IS REQUIRED IN INSTALLATION OR RE-MOVAL OF THE CONFERENCE 2000

7 IF A BUSY LAMP (INDICATING USE OF CONFERENCE 2000) IS REQUIRED REFER TO FIG 17

* INSULATE AND STORE

OPTIONS

Z FACTORY WIRED FOR K-1A1, K-1A2 NE-1A1 OR NE-1A2 WITHOUT STATION BUSY LAMP

Y. DIODE AND BL LEAD REWIRED FOR STATION BUSY LAMP



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[5] Nut required to Bell Causida.

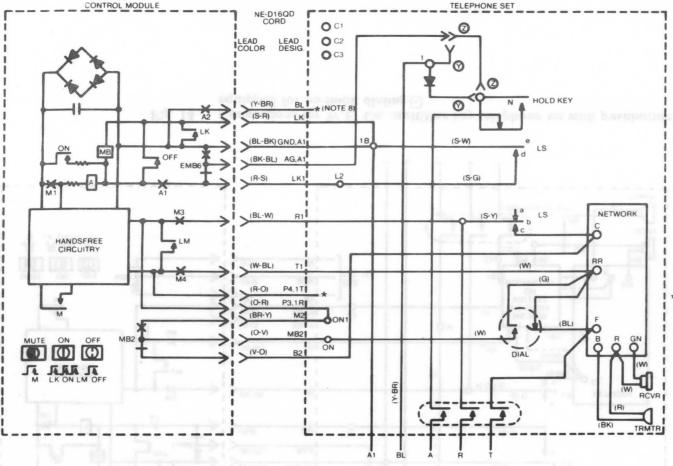


Fig. 15 — Connections for multiline key telephone set with rotary dial

THE (S-G) LEAD FROM THE LINE SWITCH LS IS CONNECTED TO THE LK1 LEAD FOR AUTOMATIC CUTOFF OF THE CONFERENCE 2000 UNIT WHEN TRANSFERRING TO THE HANDSET

2 THE AGLEAD IS CONNECTED (THROUGH A DIODE IN THE CASE OF STATION BUSY LAMP IN THE NE-1A1 OR -1A2 KTS) TO THE A LEAD OF THE SYSTEM

THE OFF-NORMAL (W) LEADS OF THE DIAL ARE REWIRED TO SERVE BOTH OFF-HOOK AND ON-HOOK DIALING

4 IN SOME TELEPHONE SETS THE BUSY LAMP BL LEAD MAY BE PERMANENTLY WIRED TO TERMINAL 12. USE A SPARE TERMINAL OR OCM12A CONNECTOR TO CONNECTI-SO, LINE SWITCH LEAD TO (R-S) LK1 LEAD

C1 C2 ETC ARE DESIGNATIONS FOR SPARE TERMINAL OR CONNECTORS

S RINGER CONNECTIONS ARE NOT SHOWN

REFER TO THE APPROPRIATE TELE-PHONE DIAGRAM WHEN REWIRING IS REQUIRED IN INSTALLATION OF RE-MOVAL OF THE CONFERENCE 2000

3 IF A BUSY LAMP INDICATING USE OF CONFERENCE 2000) IS REQUIRED REFER TO FIG 17

* INSULATE AND STORE

OPTIONS

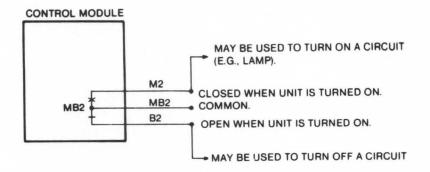
NOTES

1

Z FACTORY WIRED FOR NE-1A1 OR 1A2 WITHOUT STATION BUSY LAMP

Y. DIODE AND BL LEAD REWIRED FOR STATION BUSY LAMP

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and an a

Fig. 16 - Connections for auxiliary transfer contacts

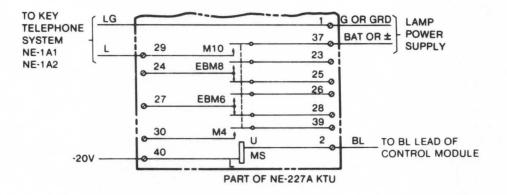


Fig. 17 — Connections for external station busy lamp or relay control

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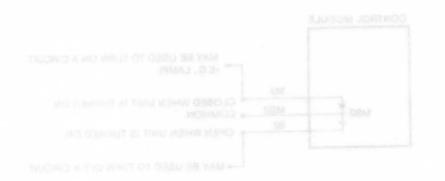


Fig. 15 - Connections for auxiliary transfer contacts

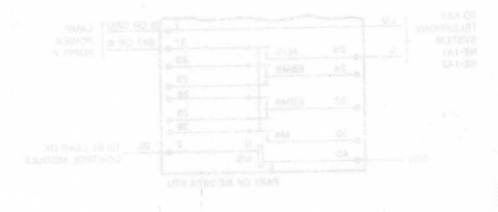


Fig. 17 -- Connections for external station basy lains or relay control

Potes J