

# INSTALLATION INSTRUCTIONS FOR LOGIC 10

## DESIGNATION TABS

Designation tabs (PO514516) are used on the NE-647 type keys for button designation. Squeeze the sides of the button caps and pull upwards to remove them from the key, insert the designation tabs and replace the caps.

## FACEPLATE COLORS

The chameleon gray sets are factory equipped with a brown faceplate. Faceplates are available in the following colors and may be ordered separately by replacing the last two digits of the part number with the appropriate color code. E.G. P0637726 (Brown).

Black	-03
Brown	-26
Sand	-32

## FACEPLATE AND COVER REMOVAL

- Release the faceplate catch by inserting an NS-16750L3 releaser (or paper clip) in the hole on the lower front edge of housing cover.
- Lift upward on the front edge of the faceplate until the locating tabs at the rear of faceplate are disengaged from the housing.
- Loosen the two cover retaining screws and remove the cover.



## OPTION CONNECTIONS

**STATION BUSY LAMP.** Station busy lamp operation is provided on the BL\* lead of the telephone set connector. This pin will be grounded when the set is in the offhook condition. Use station busy signaling unit QUB1B (or equivalent).

\*The exact pin connections for features described may vary with cable used. For information on cable assignments please see the appropriate table for the cable being used.

**INDIVIDUAL SIGNALING.** Lines, 7, 8, and 9 may be converted for on-hook signaling by removing the P0632763 conference screw and connecting as shown below.

Any line button may be used for off-hook signaling by connecting the "A" lead of the desired button to the signal lead of the customer provided circuit. A ground will be provided on the "A" lead when the button is depressed.

BUTTON	REMOVE JUMPER	PROVIDE SPADE TIP JUMPER FROM	CONNECT SIGNAL LEAD TO
7	IX	A7	A9
8	VIII	B5	A9
9	VII	B4	A9

WARRANTY REPAIR CENTER  
NORTHERN TELECOM, INC.  
ADVANCED TELEPHONE PRODUCTS DIVISION  
720 MASSMAN DRIVE  
NASHVILLE, TENNESSEE 37210

## LOGIC HANDSFREE AND DIALER UNITS.

A HANDSFREE INTERFACE is factory installed inside the Logic 10 telephone. The Companion Handsfree unit can be attached to the Logic 10 telephone with no modification to the telephone. To install a Logic 10. To install a Logic Dialer refer to the connection figures on the reverse side of this sheet.

**RINGER CUTOFF (NE-C4A Ringer).** Bend the stop on the ringer control until it clears the ringer frame. This provides an additional position of the ringer volume control which prevents armature movement.

**RINGER.** The ringer is connected to the D4 and D5 quick connect terminals which can be connected at the key equipment to the common signal or to any line for use as a line ringer.

**BUZZER.** A QBX1A buzzer may be mounted on the left dial mounting bracket. The buzzer should be connected to the "R-R1" and "B-B1" leads (if there is no ringer) or any two spare leads (e.g. the D7 and B7 quick connect terminals). The QBX1A buzzer operates on 10V ac only.

## WALL MOUNTING

A wall bracket assembly (P0515934) must be ordered for mounting the LOGIC telephone set on a vertical surface.

- Mount the wall bracket assembly using the appropriate hardware for the type of wall.
- Place the telephone set on the wall bracket assembly so the shoulder rivets enter the corresponding key hole slots in the base of the telephone set.
- Move the telephone set to the left as far as possible so the lower front mounting hole aligns with the corresponding threaded hole in the telephone set base.
- Lock the telephone set in place by inserting the knurled thumb screw through the wall bracket and into the hole in the base of the telephone set. Tighten the screw by hand.

## DIAL RESTRICTION

To disable the polarity guard (dial restriction) remove the faceplate and cover as described earlier.

- With cover and faceplate removed, carefully clip the one jumper on the backside of the dial/network adjacent to capacitor C33
- For line being restricted, reverse T & R leads at 66 type connecting block.

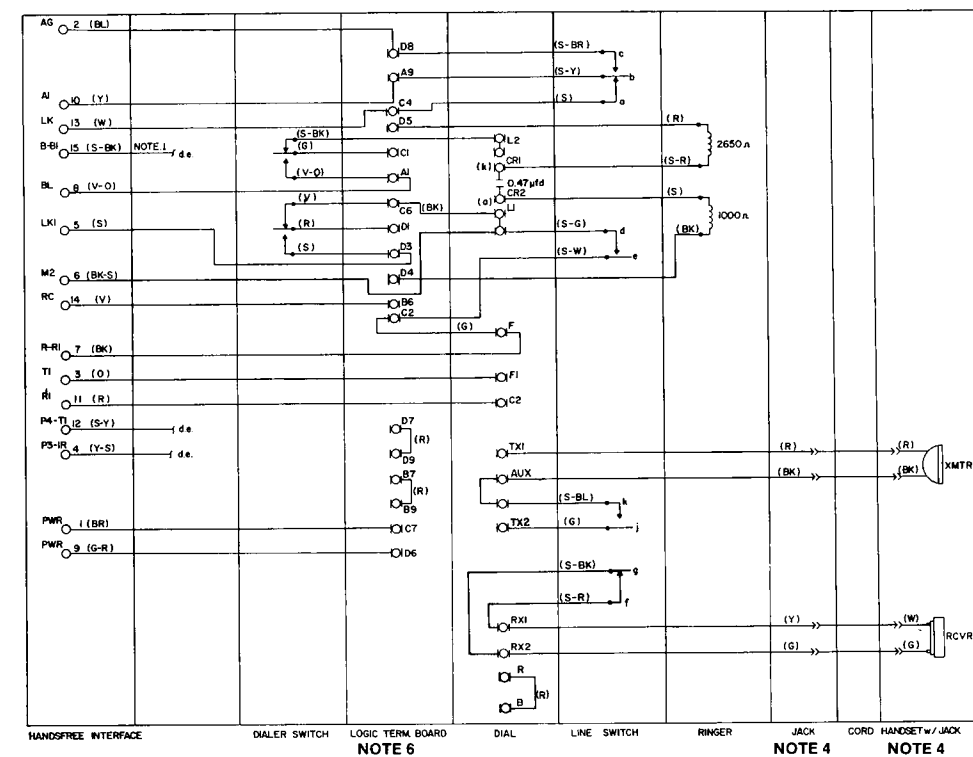
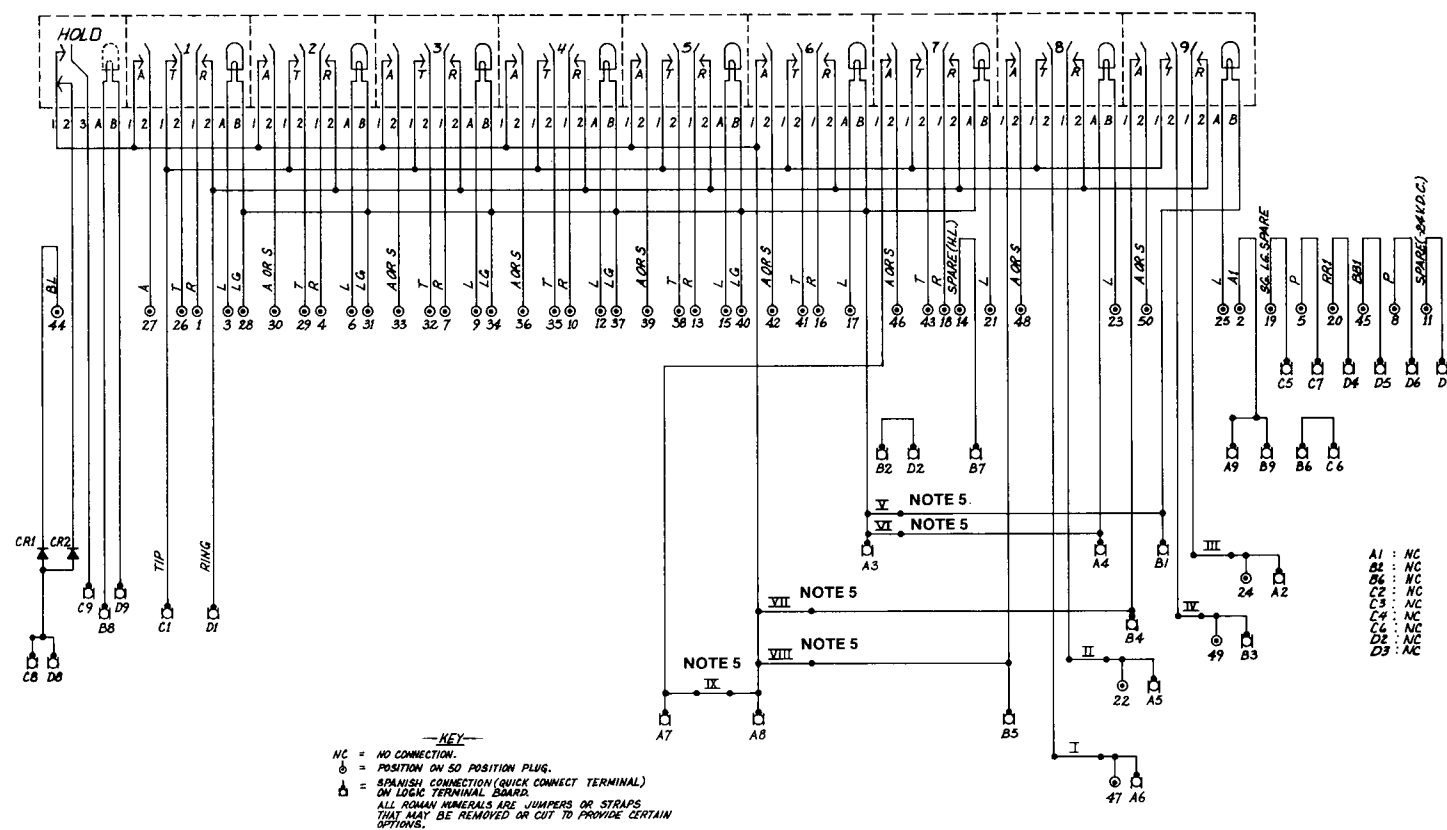
## QSHE & QSFE2200 - TYPE TELEPHONE SET CONDUCTOR ASSIGNMENT USING NE-D50QJ CORD FOR WE OF ITT CONNECTIONS

TELEPHONE SET			NE-D50QJ CORD					A25B CONN. CABLE		
LINE	LEAD DESIG	SET TERM	PLUG TERM	CONN. TERM	LEAD DESIG	LEAD COLOR	PLUG TERM	CONN. TERM	LEAD DESIG	LEAD COLOR
1	T	A9-B9	26	26	T	W-BL	26	26	T	W-BL
	R		1	1	R	BL-W	1	1	R	BL-W
	A		27	27	A	W-O	27	27	A	W-O
	A1		2	2	A1	O-W	2	2	A1	O-W
	L		3	3	L	G-W	3	3	L	G-W
2	LG		28	28	LG	W-G	28	28	LG	W-G
	T		29	29	T	W-BR	29	29	T	W-BR
	R		4	4	R	BR-W	4	4	R	BR-W
	A or S		30	30	A or S	W-S	30	30	A or S	W-S
	L		6	6	L	BL-R	6	6	L	BL-R
3	LG		31	31	LG	R-BL	31	31	LG	R-BL
	T		32	32	T	R-O	32	32	T	R-O
	R		7	7	R	Q-R	7	7	R	Q-R
	A or S		33	33	A or S	R-G	33	33	A or S	R-G
	L		9	9	L	BR-R	9	9	L	BR-R
4	LG		34	34	LG	R-BR	34	34	LG	R-BR
	T		35	35	T	R-S	35	35	T	R-S
	R		10	10	R	S-R	10	10	R	S-R
	A or S		36	36	A or S	BK-BL	36	36	A or S	BK-BL
	L		12	12	L	O-BK	12	12	L	O-BK
5	LG		37	37	LG	BK-O	37	37	LG	BK-O
	T		38	38	T	BK-G	38	38	TR	BK-G
	R		13	13	R	G-BK	13	13	R	G-BK
	A or S		39	39	A or S	BK-BR	39	39	A or S	BK-BR
	L		15	15	L	S-BK	15	15	L	S-BK
6	LG		40	40	LG	BK-S	40	40	LG	BK-S
	T		41	41	T	Y-BL	41	41	T	Y-BL
	R		16	16	R	BL-Y	16	16	R	BL-Y
	A or S		42	42	A or S	BR-BK	14	14	A or S	BR-BK
	L		17	17	L	G-Y	18	18	L	G-Y
7	Pwr.	C7	5	5	Pwr. Spare	Y-G	43	43	Pwr. Spare	Y-G
	T		43	43	T	Y-BR	44	44	T	Y-BR
	R		18	18	R	BR-Y	19	19	R	BR-Y
	A or S	A7	46	46	A or S	BL-BK	11	11	A or S	BL-BK
	L		21	21	L	BL-V	21	21	L	BL-V
8	Pwr.	D6	8	8	Pwr. Spare	V-BL	46	46	Pwr. Spare	V-BL
	T,Spare	A6	47	47	T,Spare	V-O	47	47	T	V-O
	R,Spare	A5	22	22	R,Spare	O-V	22	22	R	O-V
	A or S	B5	48	48	A or S	G-R	8	8	A or S	G-R
	L	A4	23	23	L	BR-V	24	24	L	BR-V
9	Spare	D7	11	11	Spare	V-BR	49	49	Spare	V-BR
	T,Spare	B3	49	49	T,Spare	V-S	50	50	T	V-S
	R,Spare	A2	24	24	R,Spare	S-V	25	25	R	S-V
	A or S	B4	50	50	A or S	S-W	5	5	A or S	S-W
	L	B1	25	25	L	G-V	23	23	L	G-V
Misc	Spare	B7	14	14	Spare	V-G	48	48	Spare	V-G
	SG,Spare	C5	19	19	SG,Spare	O-Y	17	17	SG,Spare	O-Y
	BL	+	44	44	BL	Y-O	42	42	BL	Y-O
	R-R1	D4	20	20	R-R1	S-Y	20	20	R-R1	S-Y
	B-B1	D5	45	45	B-B1	Y-S	45	45	B-B1	Y-S

+ Y-O lead is connected to diode CR1 and cannot be used as a spare.

FOR TECHNICAL OR CUSTOMER SERVICE  
CALL (615) 885-3510  
WARRANTY AND REPAIR INFORMATION  
CALL (615) 883-9220

### Schematic Diagram of Logic\* 10 Telephone



**NOTES:**

1. FOR DIALER OPERATION THIS LEAD MUST BE CONNECTED TO L2.
2. LOGIC TERMINAL BOARD SCHEMATIC ON DRAWING 629824, SHT. 3. 2. 2.
3. CONNECT SPEAKER LEADS TO TERMINALS D4 AND D5.
4. JACKS NOT PRESENT ON QSHE TYPE SETS.
5. JUMPER MAY BE REMOVED TO PROVIDE CERTAIN OPTIONS.
6. FOR ADDITIONAL LOGIC TERMINAL BOARD CONNECTIONS SEE KEY.