

“TELADAPT*”**MINIPLUGS AND JACKS FOR “phone centre” CONCEPT****DESCRIPTION, INSTALLATION AND CONNECTIONS**

CONTENTS	PAGE
1. GENERAL.....	1381
2. DESCRIPTION	1381
3. INSTALLATION	1386
4. CONNECTIONS	1388

1. GENERAL

1.01 TELADAPT is a family of connectors comprised of plug-ended cords, wall telephone set adaptors, jacks and auxiliary equipment intended for use with the “phone centre” concept. The design of the components is compatible with North American standards for customer-connection of terminal equipment.

Reason for Reissue:

1.02 To up date the product information. Since the scope of the update is general. No arrows or arrowleads are used to indicate where changes have been made.

1.03 TELADAPT replaces the system of jacks and plugs currently in use.

1.04 The jacks are available with either four or six conductors. The 6-conductor jacks allow the installation of future additional service features.

1.05 When converting to the TELADAPT system, a QTYIA or equivalent line terminator may be used. This unit allows the test center to verify continuity of the line when there is no terminal equipment connected to the system.

2. DESCRIPTION

2.01 Components which are used as a part of the TELADAPT system are listed and described in Table A and shown in Fig. 1 through 23.

* TELADAPT is a trademark of Northern Telecom Limited

TABLE A
TELADAPT COMPONENTS

CODE	NAME	APPLICATION	FIG.
QTY1A	Line Terminator	Used to terminate CO line for test purposes.	
NE-630AQA4	Jack	4-conductor, wall-mounted jack. Intended for mounting and connecting wall telephone sets equipped with an appropriate adaptor. A desk-type telephone set, equipped with a TELADAPT-type mounting cord, may also be connected to this jack when the jack is not being utilized for a wall telephone installation.	11
NE-630AQA6	Jack	Same as the NE-630AQA4 jack except it has six- conductors.	11
NE-630AQB4	Jack	4-conductor, wall-mounted jack. Intended for connecting a desk-type telephone set equipped with a TELADAPT-type mounting cord.	11
NE-630AQB6	Jack	Same as the NE-630AQB4 jack except it has six conductors. <i>Note:</i> The NE-625WQA4 or-NE-625WQA6 type jack is part of the NE-630AQ-type jack. May be optionally used on a standard outlet box or spacer (PO535403) with a cover (PO535425).	11
NE-625QA4	Jack	4-conductor baseboard-mounted jack.	10
NE-625QA6	Jack	6-conductor baseboard-mounted jack.	10
NE-625C4	Jack	Intended for converting a NE-42A connecting block for use as a 4-conductor baseboard-mounted jack.	13
NE-625F4	Jack	4-conductor jack for flush-mounting in a wall or for wall-mounting to a standard outlet box using a NE-43A bracket and NE-19A faceplate.	8
NE-625B4	Jack	A NE-625F4 jack packaged with a NE-43A bracket and NE-19A faceplate. Intended to be mounted on a standard outlet box.	12

Table Continued

TABLE A
(Continued)

CODE	NAME	APPLICATION	FIG.
NE-625FQA6	Jack	6-conductor jack for mounting into a "Jiffy" pole or to a standard outlet box, using a NE-43A bracket and a 19A faceplate. Intended for connecting desk-type telephone set equipped with a 6-conductor, plug-ended mounting cord.	-
NE-625QB4	Jack	4-conductor jack intended for mounting in a NS-16151 L2 weatherproof jack (enclosure). May also be mounted in a variety of customer-provided, weatherproof outlet boxes by means of a NE-43A bracket.	7
NE-191BQA	Backboard	For optional use with a NE-630AQA-type jack. Intended to compensate for the larger standoff when the NE-630AQA type jack is surface mounted using spacer (PO535403). May also be used to cover unpainted or damaged walls.	9
NE-D3QA 7ft.(2.1 m) 14ft.(4.3 m) 25ft.(7.6 m)	Mounting Cord	Plug-ended, flat, 3-conductor mounting cord. Intended to convert desk-type telephone sets for use with TELADAPT-type jacks. Available in -87 silver satin.	6
NE-D4QH 7ft.(2.1 m) 14ft.(4.3 m) 25ft.(7.6 m)	Mounting Cord	Plug-ended, flat, 4-conductor mounting cord. Intended to convert desk-type telephone sets for use with TELADAPT-type jacks. Available in -87 silver satin.	4
NE-D6QF 7ft.(2.1 m) 14ft.(4.3 m) 25ft.(7.6 m)	Mounting Cord	Plug-ended, flat, 6-conductor mounting cord. Intended to convert desk-type telephone sets for use with TELADAPT type jacks. Available in -87 silver satin.	5
NE-228A4	Adaptor	To adapt a 554-type telephone set for mounting and connection to a NE-630AQA-type jack. <i>Note:</i> Not intended to fully cover wall blemishes left by the removal of the previous installation.	15

Table Continued

TABLE A
(Continued)

CODE	NAME	APPLICATION	FIG.
NE-228QA4	Adaptor	To adapt a 554-type telephone set for mounting and connection to a NE-630AQA type jack. (When this adaptor is used, the retrofitted wall telephone set is located in a position on the wall that will ensure maximum coverage of any wall blemishes left by the removal of the previous non-TELADAPT installation.)	15A
NE-228QB	Adaptor	Same as the NE-228A4 adaptor except that it includes a bezel to improve the appearance of the telephone set installation.	16
NE-228QC	Adaptor	Same as the NE-228QA4 adaptor except that it includes a bezel to improve the appearance of the telephone set after installation.	16A
NE-228QD	Adaptor	Must be used in conjunction with a NE-228QC adaptor to adapt a 554-type telephone set of the 1954-56 vintage for mounting and connection to a NE-630AQA-type jack. <i>Note:</i> Early vintage 1954-1956 554-type telephone sets cannot be used with other NE-228 type adaptors.	17
NE-230QA4	Adaptor	To adapt a CONTEMPRA* type telephone set for mounting and connection to a NE-630AQA-type jack. <i>Note:</i> Not intended to fully cover wall blemishes left by the removal of the previous non-TELADAPT installation.	19A
NE-230QC4	Adaptor	Same as the NE-230QA4 adaptor except that the retrofitted telephone set is located in such position on the wall that ensures maximum coverage of any wall blemishes left by the removal of the previous non-TELADAPT installation.	19

Table Continued

*CONTEMPRA is a trademark of Northern Telecom Limited

TABLE A
(Continued)

CODE	NAME	APPLICATION	FIG.
NE-228QA	Adaptor	Used with a NE-228A4 adaptor to adapt an Automatic Electric Co. 90- type wall telephone set for mounting and connection to a NE-630AQA-type jack.	18
NE-230QB4	Adaptor	To adapt an IMAGINATION* 430- type telephone set for mounting and connection to a NE-630AQA-type jack.	21
NE-229A4	Adaptor	To adapt a WE-2554-type telephone set for mounting and connection to a NE-630AQA-type jack.	20
NE-523A4	Plug	4-conductor plug. This assembly is a component part of the 228, 229 and 230 type adaptors.	1
NE-225QB	Adaptor	To convert existing 404-type jacks for connecting desk-type telephone sets equipped with a TELADAPT-type mounting cord.	-
NE-267QA	Adaptor	Used with TELADAPT-type jacks to allow connection of two pieces of telephone apparatus (equipped with a TELADAPT-type mounting cord) to the one jack. May also be used to provide external power to telephone apparatus.	14
NE-P4QC	Patch Cord	To adapt telephone apparatus, equipped with 283-type plugs, for connection to a TELADAPT-type jack.	-
PO535403	Spacer	Used to provide clearance for terminal screws when surface mounting a NE-630AQA type jack.	11
PO535422	Shield	Optional cover for a NE-630AQA type jack when the jack is not in use.	11
PO535426	Plug (Dummy)	Optionally used with NE-625 and NE-630-type jacks to protect plug opening when the jack is not in use.	-
PO535425	Cover	Optionally used with a NE-625WQA type jack to cover wall marks left by the removal of a NE-l6B faceplate.	-
PO556354	Backboard (Vinyl)	Same as for PO556355 backboard except for overall size: width 7.4 inches (188 mm), length 12 inches (304.8 mm).	-
PO535663	Cord Retainer	Required when installing a NE-D4QH cord to a CONTEMPRA-type telephone set.	22
PO556355	Backboard (Vinyl)	Optionally used with a NE-630AQA-type jack to cover unpainted or damaged wall surfaces left by the removal of a previously installed telephone set. Overall size: width 9 inches (228.6 mm) length 13 inches (230.2 mm).	-

* IMAGINATION is a trademark of Northern Telecom

3 INSTALLATION

WARNING: The ground conductor of the inside wire must be connected at the protector and each jack on all installations.

3.01 **QTYIA Line Terminator.** The QTYIA line terminator is equipped with two 4-inch leads for connection to the ring and tip terminals of the protector or NE-625QA-type jack.

3.02 NE-630AQ-type jacks are mounted on a standard electrical outlet box or on a spacer, (PO535403), when no outlet box is provided. Provision is made, in the spacer, for entry of concealed wiring through the back, or for surface-wiring through the bottom. Follow the steps as described in (a) or (b) below.

Note: Where a telephone set is to be attached adjacent to door frames or cupboards, allow sufficient space for the set when mounting this wall jack.

a) When an outlet box is provided:

- (1) Route the inside wires from the outlet box through the four rectangular openings in the NE-625WQA-type jack (part of the NE-630AQ-type jack). See Fig. 11.
- (2) Fasten the jack to the outlet box with the two screws provided.
- (3) Connect the inside wire to the appropriate terminals.
- (4) Install the cover using the screws provided.

b) When an outlet box is not provided:

- (1) Using the spacer as a template, drill the required mounting holes.
- (2) Route the inside wire through the spacer and the four rectangular openings in the NE-625WQA-type jack. See Fig. 11.
- (3) Align the jack with the spacer, and fasten both to the wall using four screws (not provided).
- (4) Connect the wires to the appropriate terminals.
- (5) Install the cover plate using the two screws provided.

3.03 To install an adaptor equipped wall set, move the adaptor plug as far down as possible toward the bottom of the set. Align the plug with the jack and the keyhole slots with the lugs on the cover (Fig. 3). Press the set firmly against the cover and push downward until the set locks in place.

3.04 An optional shield (PO535422) is available to cover the NE-630AQA-type jack when not in use. The shield must be ordered separately.

3.05 **NE-625WQA-type jacks.** If a wall-mounted jack with a wider faceplate is required, i.e. to cover holes left by the removal of a NE-493A jack and a NE-16B cover, a NE-625WQA-type jack may be used with a spacer (PO535403) and a cover (PO535425).

3.06 **NE-625QA-type jacks.** These jacks are mounted as high as possible on a baseboard or similar mounting surface (with the jack opening facing either left or right) as described in the following steps. See Fig. 10

Note: Do not install these jacks with the jack opening facing upward.

- (1) Remove the cover by inserting a screwdriver in the slot on either side of the rear wire entry hole and twist.
- (2) Route the inside wire through the desired entry hole. (Knockouts are provided in the cover to permit side wiring entries.)
- (3) Fasten the jack to the baseboard using two screws (not provided).
- (4) Connect the inside wires and jack leads to the appropriate terminals.
- (5) Replace the cover.

3.07 **NE-625QB4 Jack.** Mount the NE-625QB4 jack in a NS-16151 L2 weather-proof jack (enclosure) as described in the following steps. See Fig. 7.

- (1) Remove the cover of the NS-16151 L2 weatherproof jack (enclosure) by loosening the locking screw.
- (2) Mount the housing on the wall so that the wire entry hole faces downward.
- (3) Route the station wire through the gland nut, washer and grommet and through the entry hole into the housing. Tighten the gland nut.
- (4) Connect the station wire to the appropriate jack terminals.
- (5) Install the jack in the housing. Insert the retaining ring and replace the cover.

Note: Station wire should be enclosed in conduit.

3.08 The NE-625QB4 jack may be mounted to a variety of customer-provided weatherproof outlet boxes by fastening the jack to the outlet box using a NE-43A bracket.

3.09 **NE-625C4 Jack.** The NE-625C4 jack is used to convert a NE-42A connecting block for TELADAPT as described in the following steps. See Fig. 13.

Note: Do not install this jack with the jack opening facing upward.

- (1) Remove the cover from the NE-42A connecting block.
- (2) Connect the leads from the NE-625C4 jack to the matching colors on the NE-42A block.
- (3) Mount the jack on the connecting block with the screw provided.

3.10 **NE-625F4 Jack.** The NE-625F4 jack may be flush-mounted in a wall panel or mounted to a standard electrical outlet box. Follow the steps as described in (a) or (b) below.

a) Flush-mounting in a wall (Fig. 8).

- (1) Drill a 1-1/4 inch (31.8 mm) hole in the wall.
- (2) Fasten the mounting ring to the wall.
- (3) Route the station wire through the mounting ring and connect to the appropriate jack terminals.
- (4) Fasten the jack to the mounting ring with the two screws provided.
- (5) Install the NE-16A faceplate using the screws provided.

Note: If when converting existing wiring to TELADAPT, a mounting ring is already in place, use a faceplate PO547912 which is an NE-16A faceplate without the mounting ring.

b) Mounting to a standard outlet box (Fig. 12).

- (1) Fasten the jack to the NE-43A bracket and connect the station wire from the outlet box to the appropriate jack terminals.

- (2) Fasten the bracket (with the jack attached) to the standard outlet box using the screws provided.

- (3) Install the NE-19A faceplate with the screws provided.

Note: If, when converting existing wiring to TELADAPT, a NE-43A bracket is already in place, use a NE-625F4 jack and a NE-19A faceplate.

3.11 **NE-625B4 Jack.** The NE-625B4 jack is a NE-625F4 jack packaged with a NE-19A faceplate and a NE-43A bracket. For installation refer to Fig. 12 and 3.10 (b).

3.12 **NE-191BQA Backboard.** A NE-191BQA backboard is used to compensate for the larger stand-off when the NE-630AQA-type jack is surface-mounted using a spacer (PO535403) or to cover unpainted or damaged wall surfaces. The backboard fits over the cover of the NE-630AQA-type jack and is fastened to the wall with the double-sided tape provided. Refer to Fig. 9.

3.13 **NE-228, -229 and -230 type adaptors.** These adaptors are used to adapt telephone sets for mounting and connection to NE-630AQA-type jacks. Refer to Table A for selection of the appropriate adaptor. Install the adaptors as described in the following steps. Refer to Fig. 15 through 21.

- (1) Remove the telephone set housing.
- (2) Route the wiring from the adaptor plate through the hole in the back of the set. (If applicable, the wiring will pass through an additional adaptor or bezel.)
- (3) Fasten the adaptor plate (and adaptor or bezel if applicable) to the baseplate of the set with the screws provided.
- (4) Connect the wiring from the adaptor plate to the appropriate telephone set terminals. (Refer to Tables C through K for the appropriate connections).

Note: For the NE-228QB and NE-228QC adaptor, the bezel snaps onto the baseplate of the telephone set after the adaptor plate is fastened to the set.

4. CONNECTIONS

4.01 All jacks, except the NE-625C4 and NE-625QA-type jacks, are equipped with spade-tip ended leads that are factory wired. All that is necessary at the time of installation is to connect the inside wire according to Table B.

4.02 Since a primary requirement for TELADAPT is that all jacks must be wired in a similar manner, all service modifications (conversion from 2-party service to individual or bridged service, etc.) must be made within the telephone set. This type of modification was previously made at the connecting block.

4.03 The NE-625C4 and NE-625QA-type jacks are equipped with spade-tip ended leads which are not prewired and must be connected according to Table B at the time of installation.

4.04 Tables C through K shows the wiring changes when modifying existing telephone sets with TELADAPT-type cords for connection to the TELADAPT system.

4.05 Leads in the NE-D3QA-87, NE-D4QH-87 and NE-D6QF-87 mounting cords are identified by color. (Refer to Fig. 4 through 6).

**TABLE B
JACK CONNECTIONS**

TERMINAL DESIGNATIONS	JACK WIRE COLOR	"D" INSIDE WIRE (3-PAIR)	"Z" STATION WIRE (4-CONDUCTOR)
R (RJ)	R	BL-W	R
G (TI)	G	W-BL	G
Y (GND)	Y	0-W	Y
BK (AUX)	BK	W-0	BK
W (R2)	W	G-W	-
BL (T2)	BL	W-G	-
Note: Terminal designations in parenthesis indicate designations of early model jacks.			

TABLE C
Connections for NE-500, -554, -2500 and
-2554 Type Telephone Sets

		Color	Individual or Bridged	Ring Party	Tip Party	Tip Party ANI
Mounting Cord or Adaptor	RING TIP GND AUX	R G Y BK	L2 L1 G *(L4)	L2 L1 G *(L4)	L1 L2 G *(L4)	L1 L2 G *(L4)
Ringer		R BK S S-R	L2 L1 K A	L2 G K A	L2 G K A	B B K G
Line Switch		S	L2(L3)	L2(L3)	L2(L3)	A
Note: Terminal designations in parenthesis indicate wiring differences for sets equipped with a QNB425-type network. * Insulate and store wire(s).						

TABLE D
Connections for QSK3500, -3554,
Type Telephone Sets equipped with
a NE-35QA type dial

		Color	Individual or Bridged	Ring Party	Tip Party	Tip Party ANI
Mounting Cord or Adaptor	RING TIP GND AUX	R G Y BK	L2 L1 G *(L4)	L2 L1 G *(L4)	L2 L1 G *(L4)	L2 L1 G *(L4)
Ringer		R BK S S-R	L2 L1(Y) K A	L2 G K A	L1(Y) G K A	X X K G
Dial		BL	X	X	X	C
Line Switch		S S-Y S-BR S-G S-W	X(L3) X C L1(Y) RR	X(L3) X C L1(Y) RR	X(L3) X C L1(Y) RR	A L1(Y) RR X B
Note: Terminal designations in parenthesis indicate wiring differences for sets equipped with a QNB425-type network.						

TABLE E
Connections for QSK100, -2100 and -3100
Type Telephone Sets

		Color	Individual or Bridged	Ring Party	Tip Party
Mounting Cord or Adaptor	RING TIP GND AUX	R G Y BK	L2 L1 G *	L2 L1 G *	L2 L1 G *
Ringer		BK S R S-R	L1 K L2 A	G K L2 A	L1 (G) K G (L1) A
* insulate and store wire(s). () Indicates wiring differences for QSK3100-type telephone sets.					

TABLE F
Connections for QSK400 and -2400
Type Telephone Sets

		Color	Individual or Bridged	Ring Party	Tip Party	Tip Party ANI
Mounting Cord	RING TIP GND AUX	R G Y BK	2L 1L G1 *	2L 1L G1 *	1L 2L G1 *	1L 2L G1 *
Ringer		BK S S-R R	+ * * A	G1 * * A	G1 * * A	G1 * B A
Line Switch		S S-G	K +	K 1L	K 1L	K 1L
* Insulate and store wire (s). + QCM15B connector (to connect the BK ringer lead and S-G line switch lead to terminal 1L of the network).						

TABLE G
Connections for QSK430, -2430 and -3430
Type Telephone Sets

		Color	Individual or Bridged	Ring Party	Tip Party	Tip Party ANI
Mounting Cord or Adaptor	RING TIP GND AUX	R G Y BK	L2 L1 G *	L2 L1 G *	L1 L2 G *	L1 L2 G *
Ringer		BK S R S-R	L1 * K *	G * K *	G * K *	G * K B
* Insulate and store wire (s).						

TABLE H
Connections for QSK440-Type Telephone Sets

		Color	Individual or Bridged	Ring Party	Tip Party	Tip Party ANI
Mounting Cord	RING TIP GND AUX	R G Y BK	L2 L1 G *	L2 L1 G *	L1 L2 G *	L1 L2 G *
Ringer		BK S S-R R	L1 K A L2	G K A L2	G K A L2	2L K G 2L
* Insulate and store wire(s).						

TABLE J
Connections for NE-702BIQA and NE-2702BQA
Type Telephone Sets

		Color	Individual or Bridged	Ring Party	Tip Party	Tip Party ANI
Mounting Cord	RING TIP GND AUX	R G Y BK	L2 L1 G *	L2 L1 G *	L1 L2 G *	L1 L2 G *
Ringer		R BK S S-R	K L1 * *	K G * *	K G * *	K G * B
* Insulate and store wire (s).						

TABLE K
Connections for QSK3500, -3554
Type Telephone Sets
(equipped with a NE-35QBX dial)

		Color	Individual or Bridged	Ring Party	Tip Party	Tip Party ANI
Mounting Cord or Adaptor	RING TIP GND AUX	R G Y BK	L2 L1 G L4	L2 L1 G L4	L2 L1 G L4	L2 L1 G L4
Ringer		R BK S S-R	L2 L1 K A	L2 G K A	G L1 K A	B B K G
Line Switch		S S-Y S-BR S-G S-W	L3 L2 X L1 RR	L3 L2 X L1 RR	L3 L2 X L1 RR	A L1 RR L2 X
* Insulate and store wire (s)						

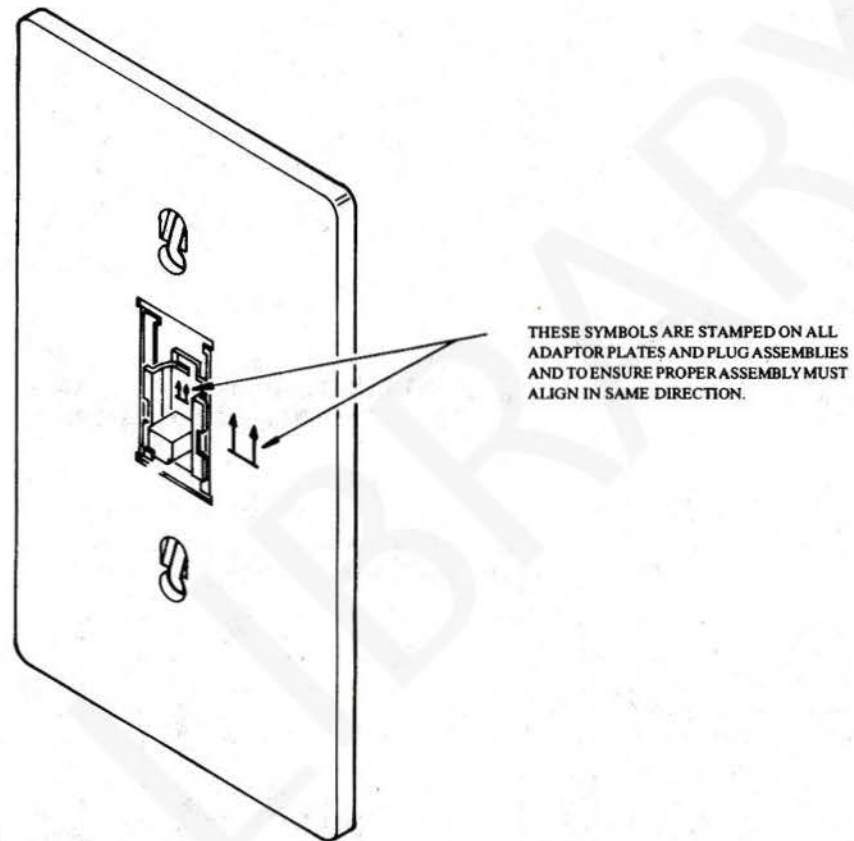
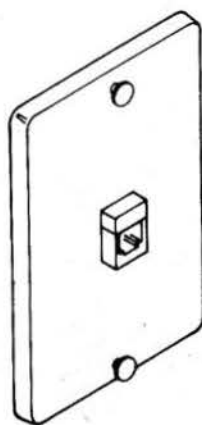
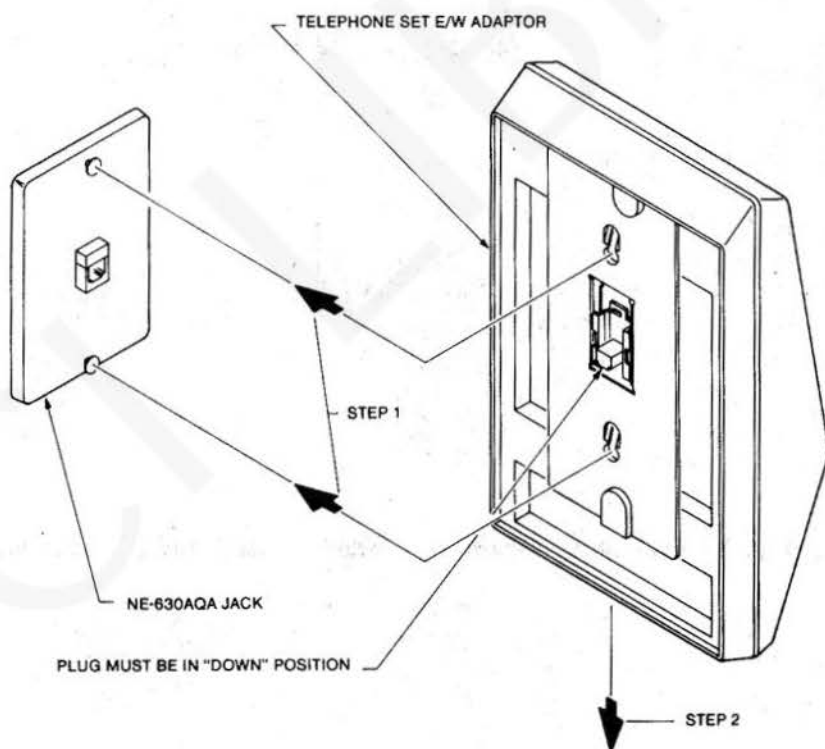


Fig. 1 - Typical arrangement of adaptor plate and plug assembly.



**Fig. 2 - NE-630AQA4, NE-630AQA6 □
NE-630AQB4, NE-630AQB6 □**



**Fig. 3 - Mounting NE-228, 229 and 230 type adaptors
to NE-630AQA type wall jack**

□ Not required by Bell Canada

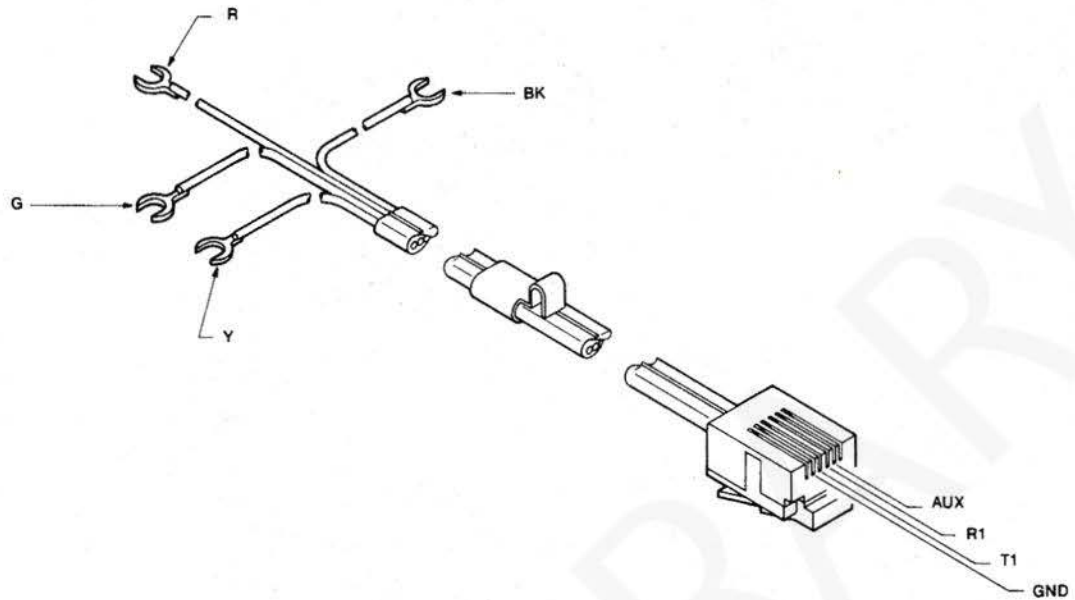


Fig. 4 - NE-D4QH Cord

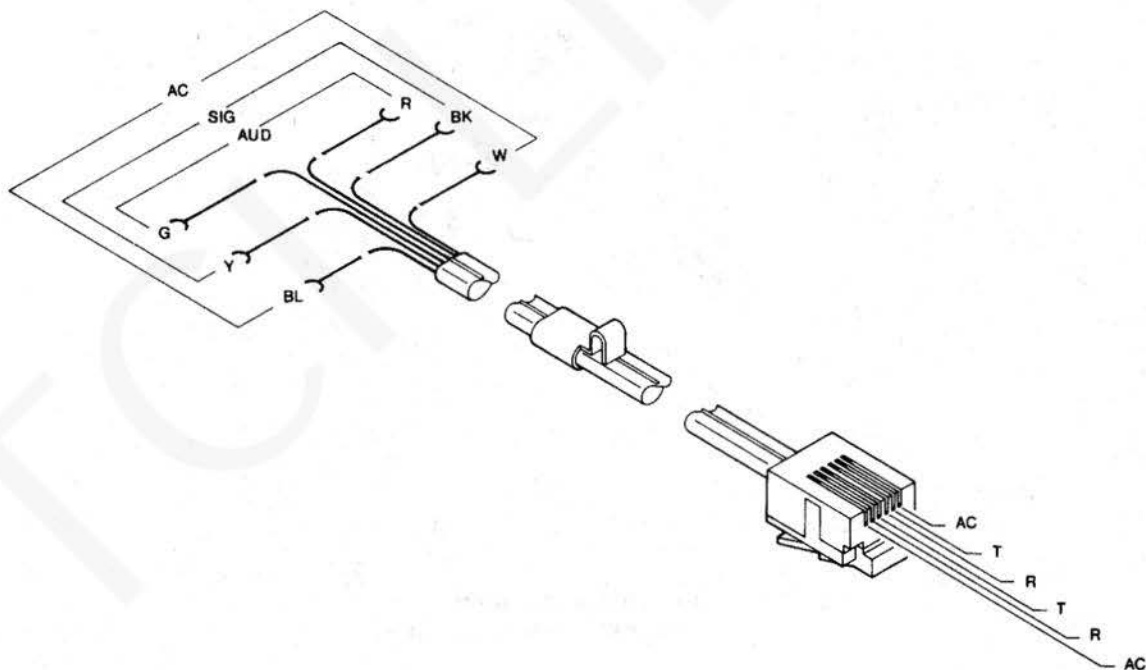


Fig. 5 - NE-D6QF Cord

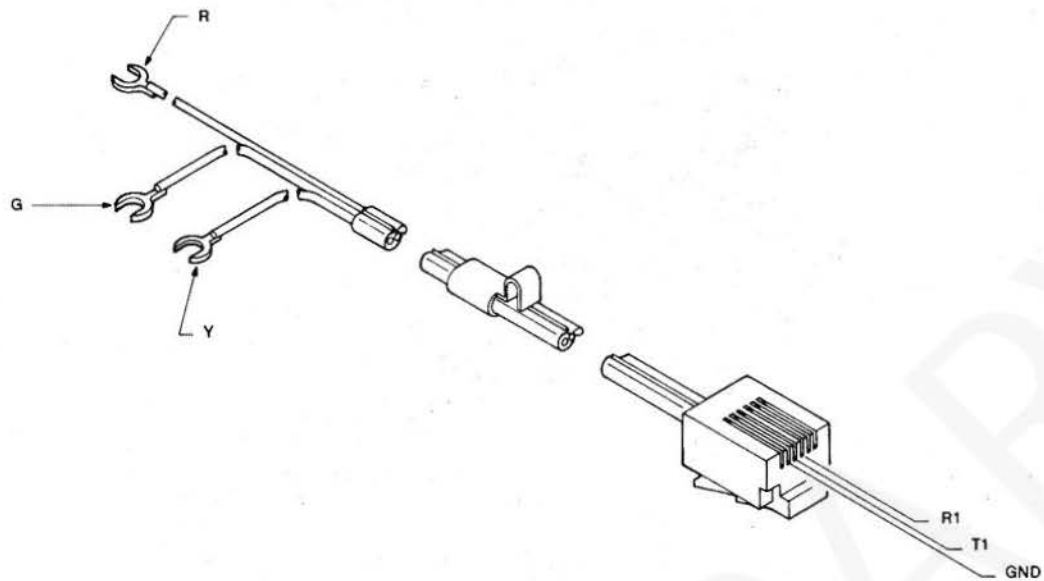


Fig. 6 - NE-D3QA Cord

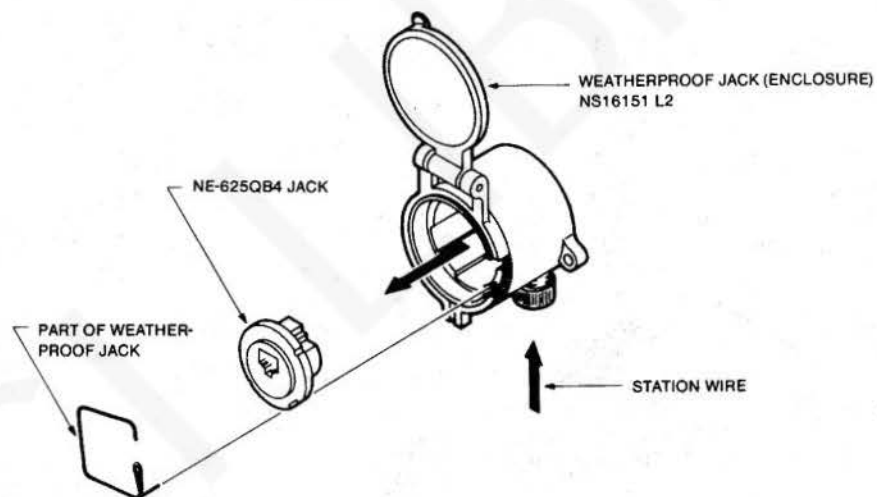


Fig. 7 - NE-625QB4 Jack mounted to weatherproof jack (enclosure)

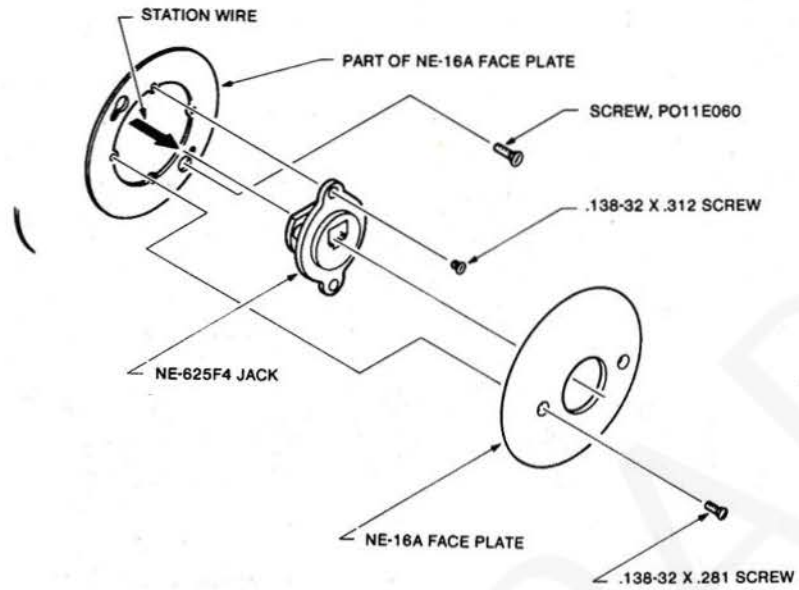


Fig. 8 - NE-625F Jack wall mounted.

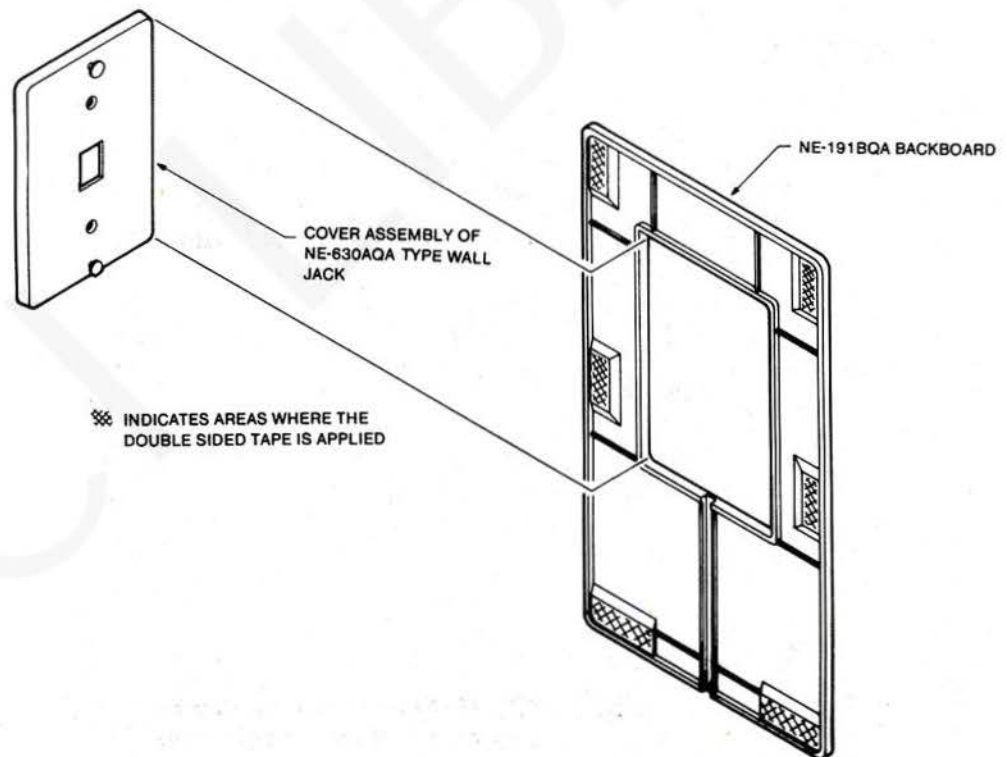


Fig. 9 - NE-191BQA Backboard

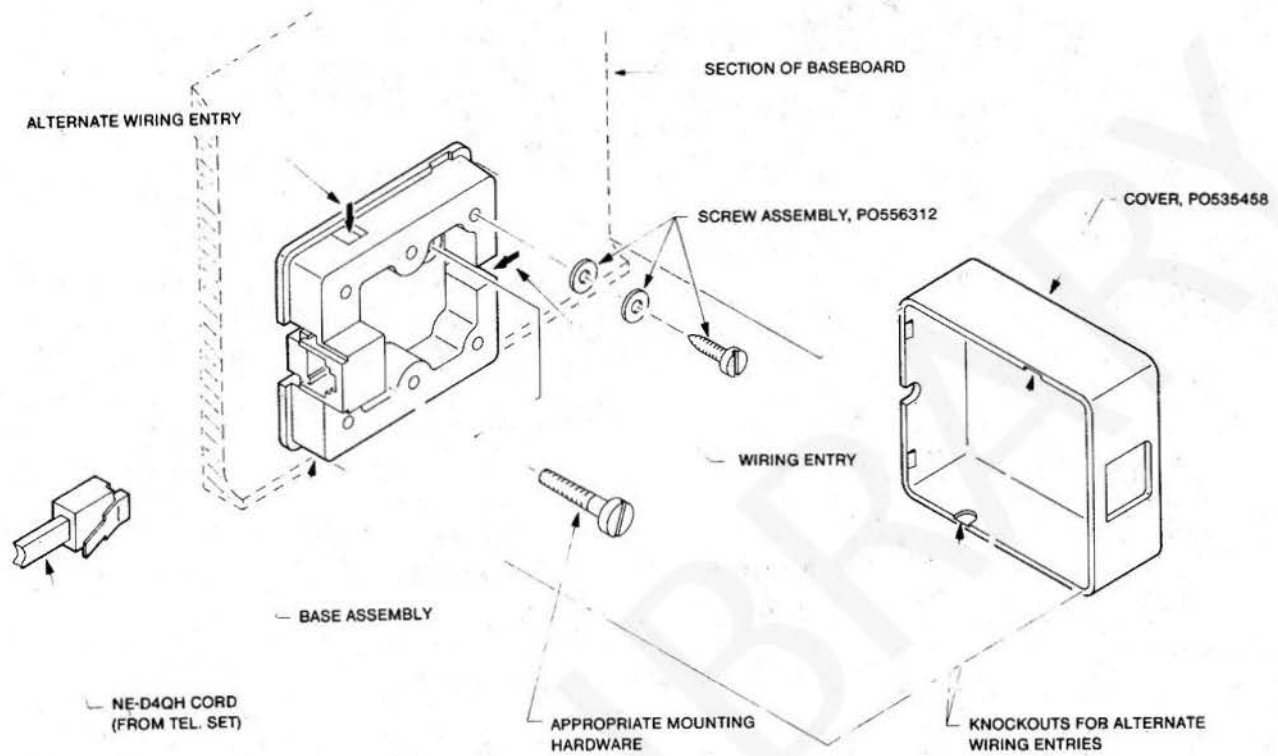


Fig. 10 - NE-625QA type baseboard jack

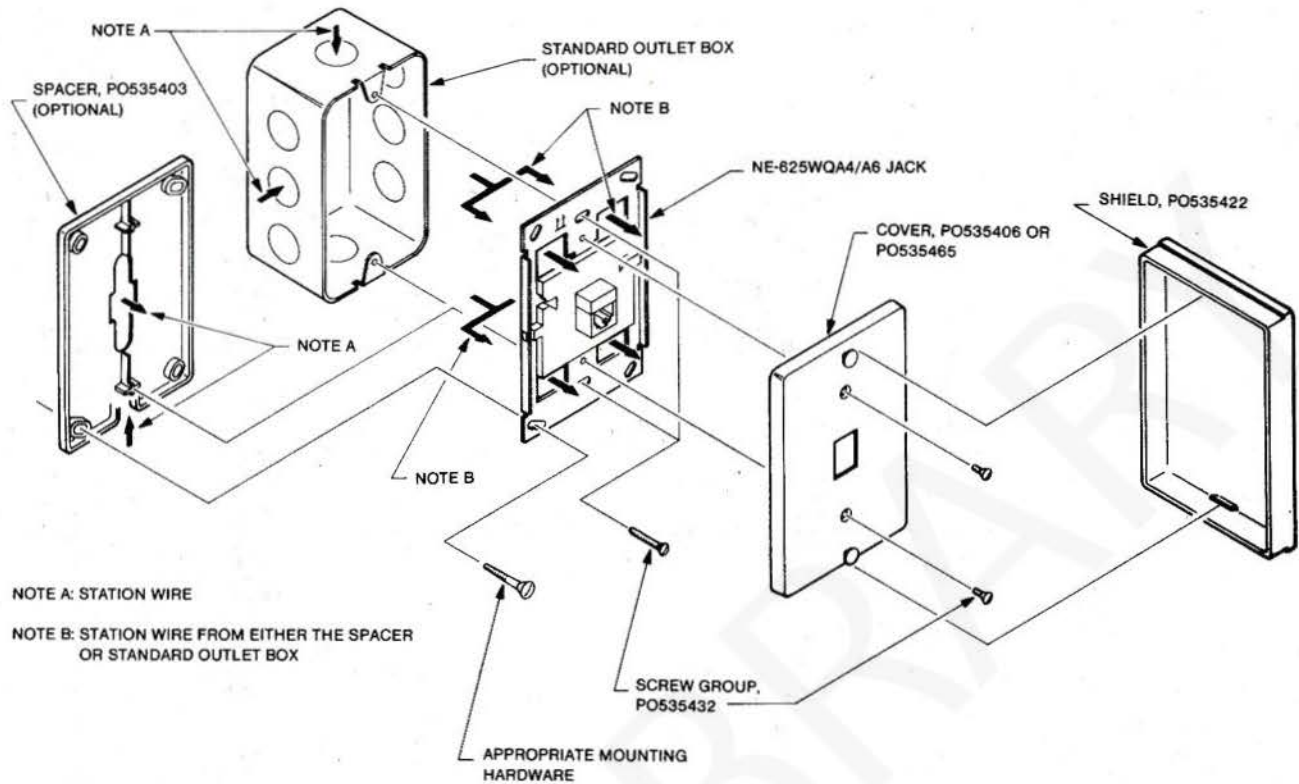


Fig. 11 - NE-630AQ Type wall jack

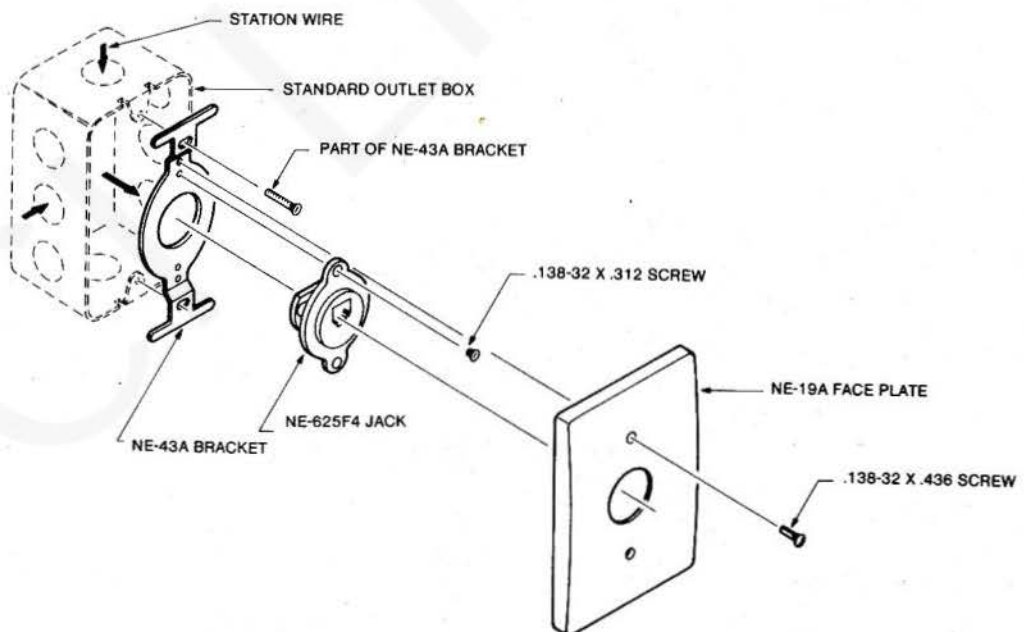


Fig. 12 NE-625B4 Jack □

□ Not required by Bell Canada

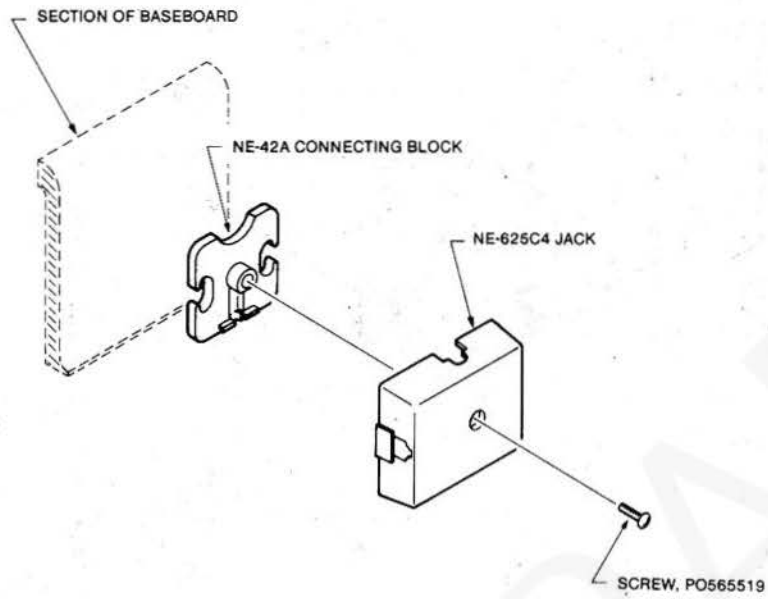


Fig. 13 - NE-625C4 Jack □

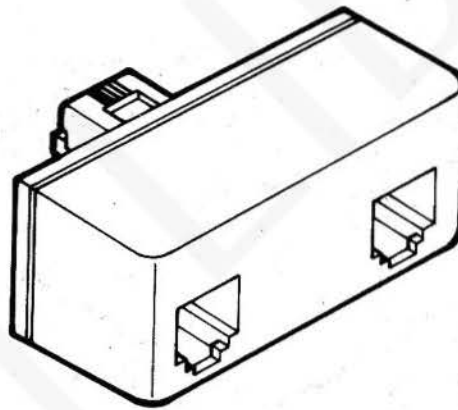


Fig. 14 - NE-267QA Adaptor

□ Not required by Bell Canada

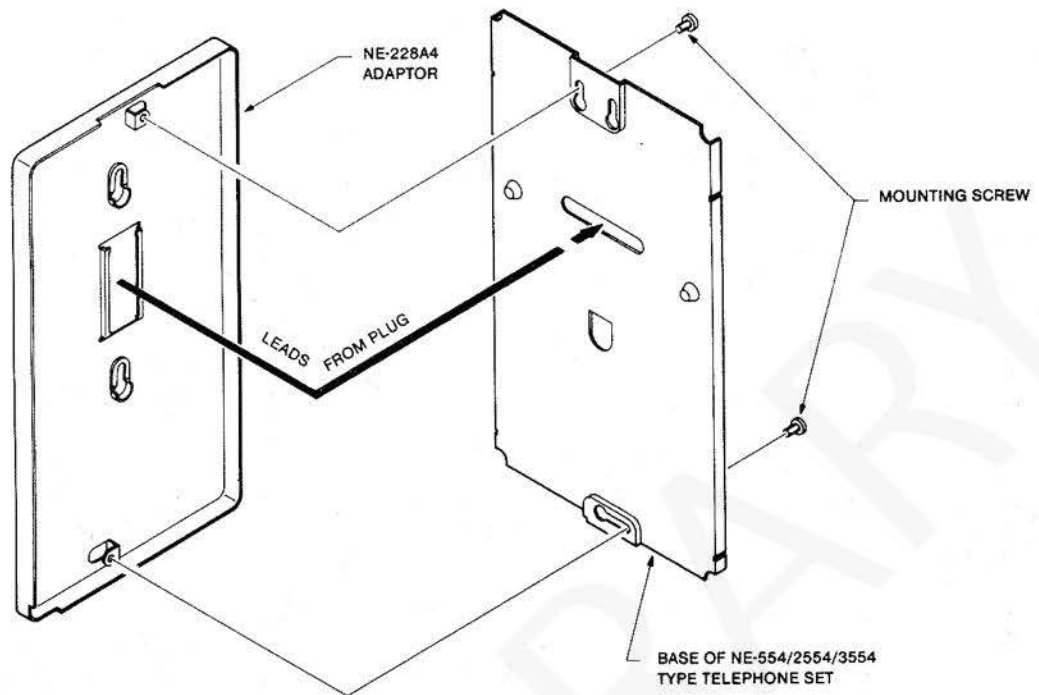


Fig. 15 - NE-228A4 Adaptor

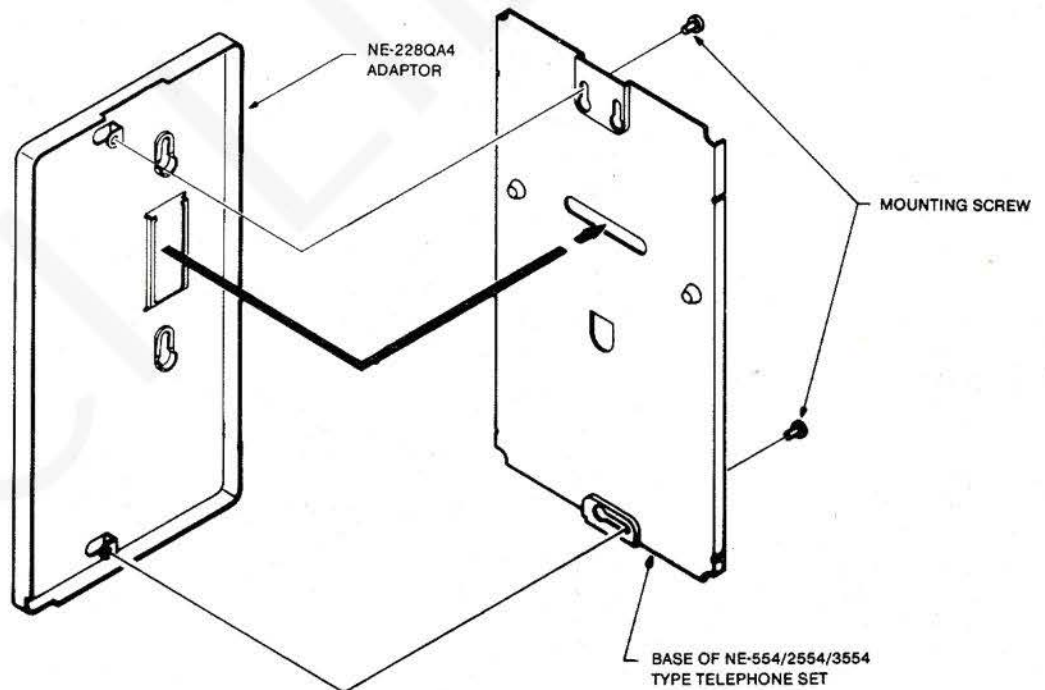


Fig. 15A - NE-228QA4 Adaptor

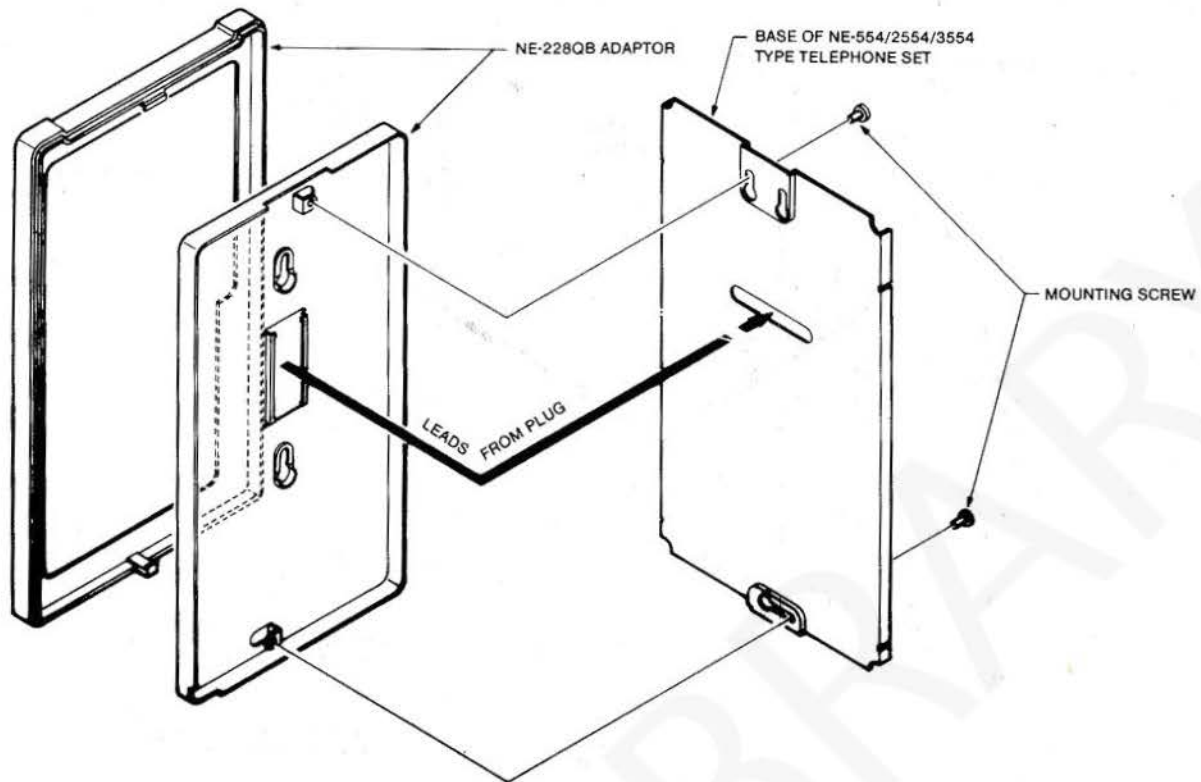


Fig. 16 - NE-228QB Adaptor

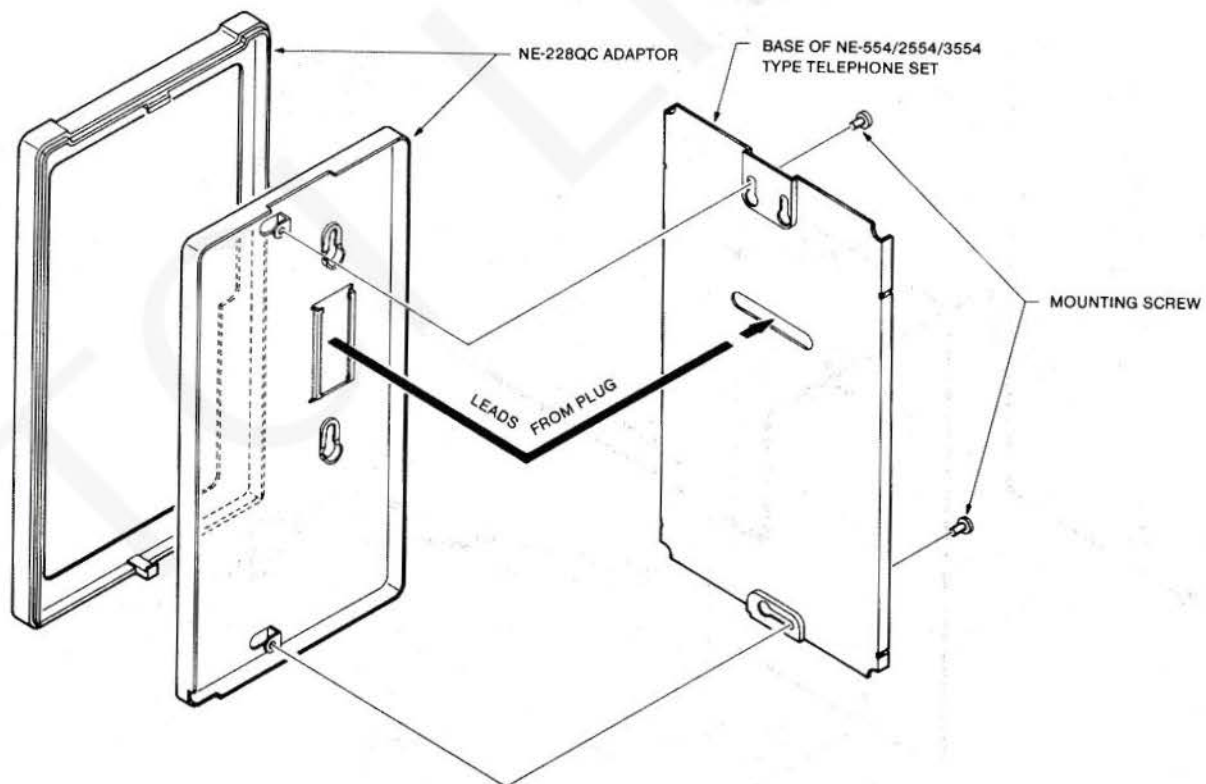


Fig. 16A - NE-228QC Adaptor

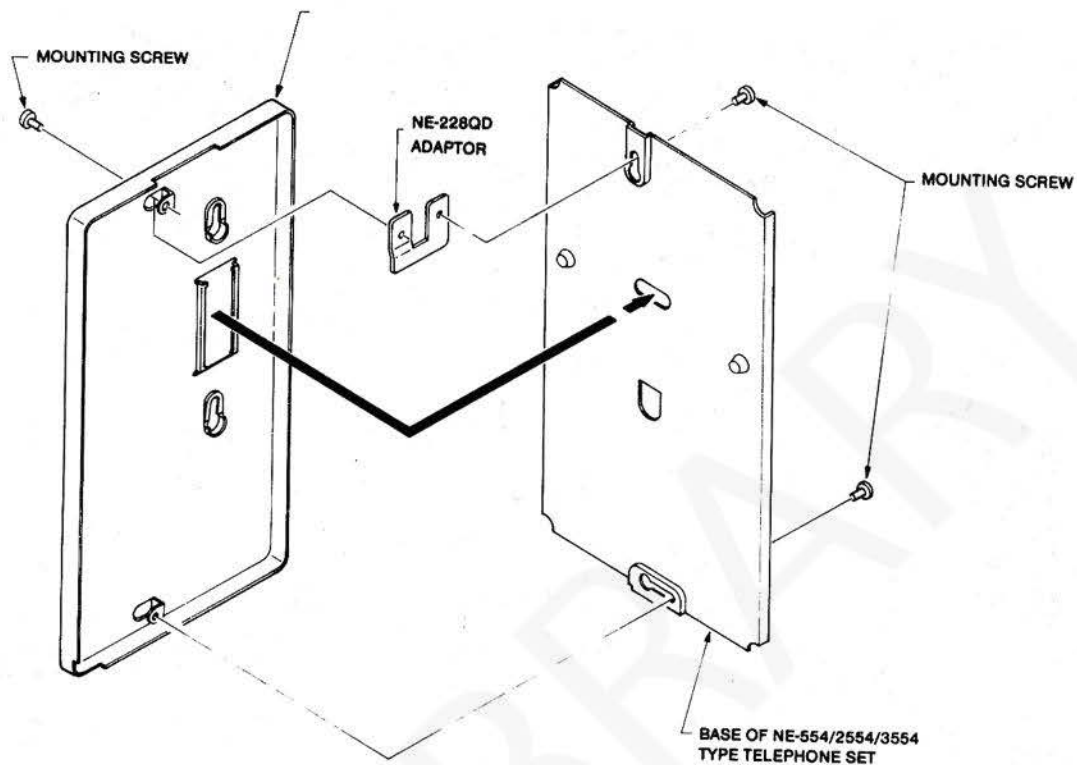


Fig. 17 - NE-228QD Adaptor

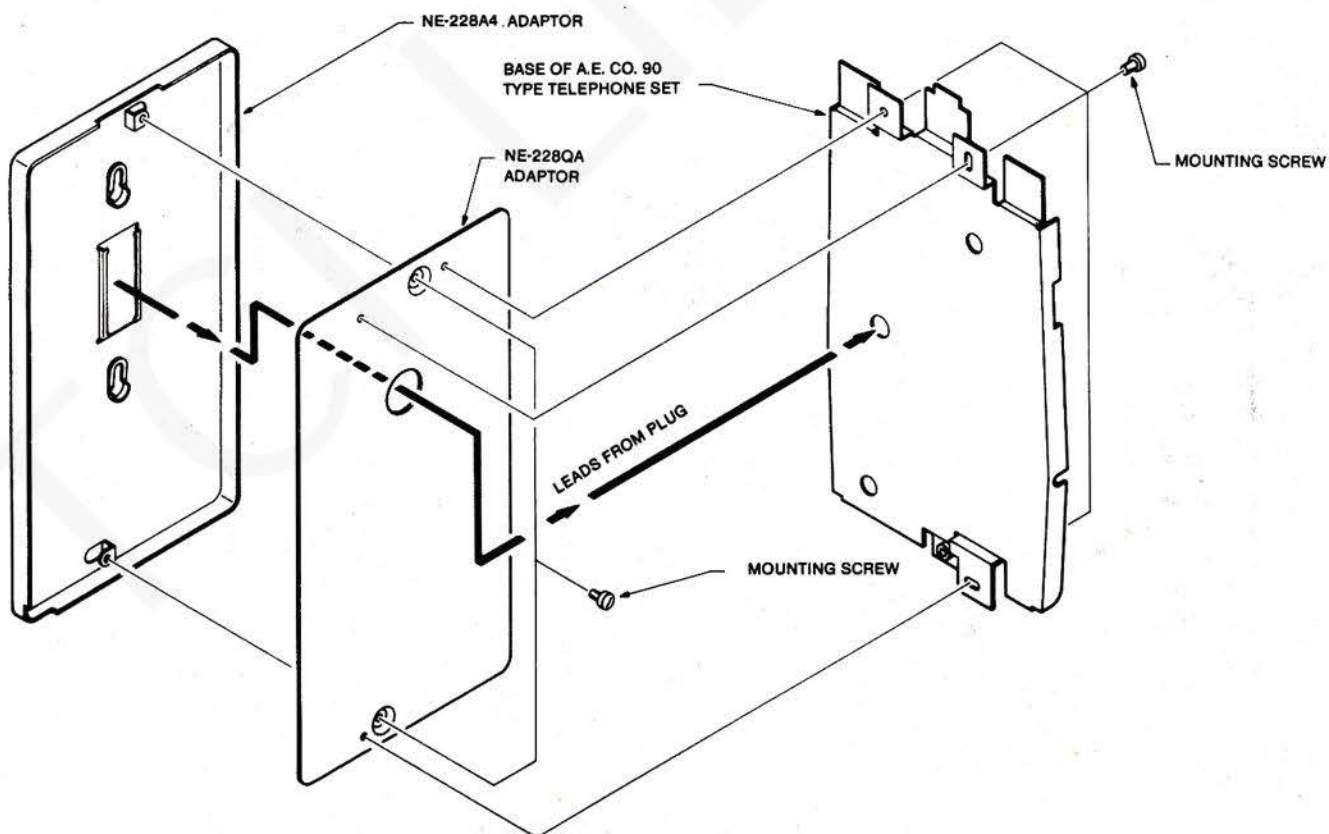


Fig. 18 - NE-228QA Adaptor

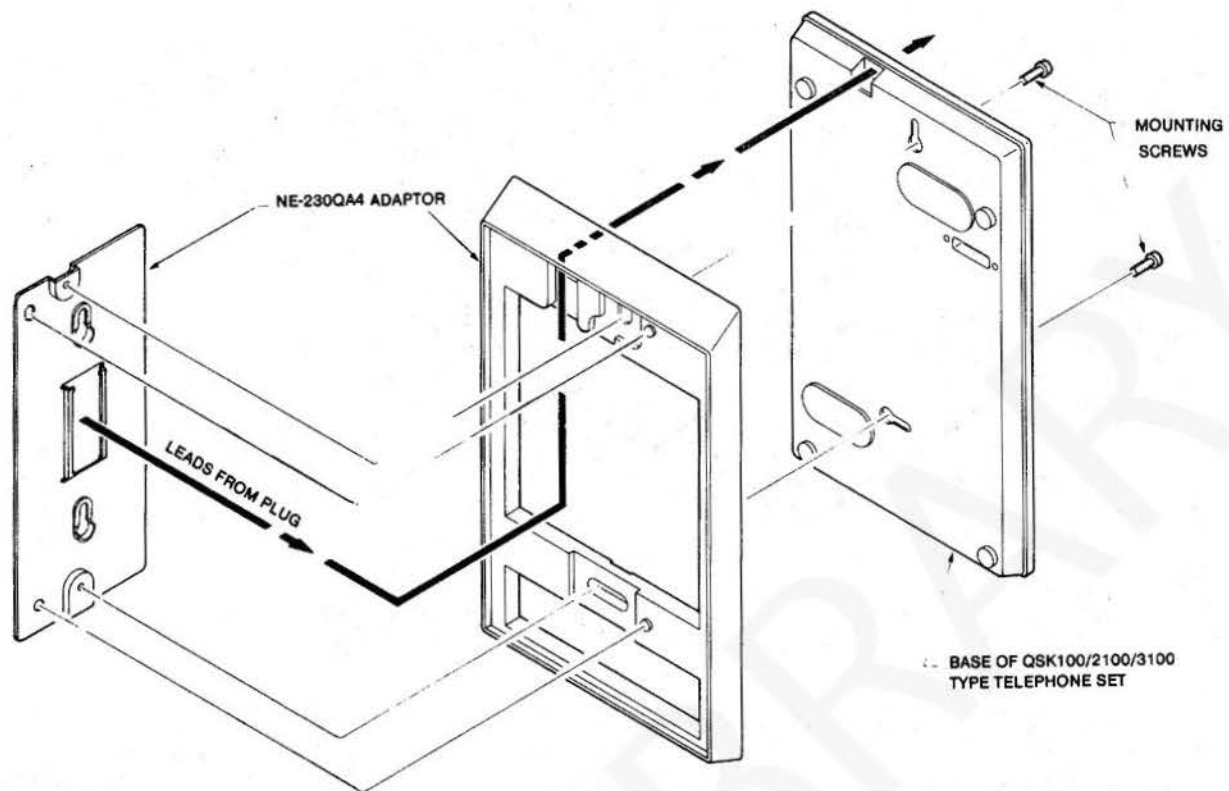


Fig. 19 - NE-230QA4 Adaptor

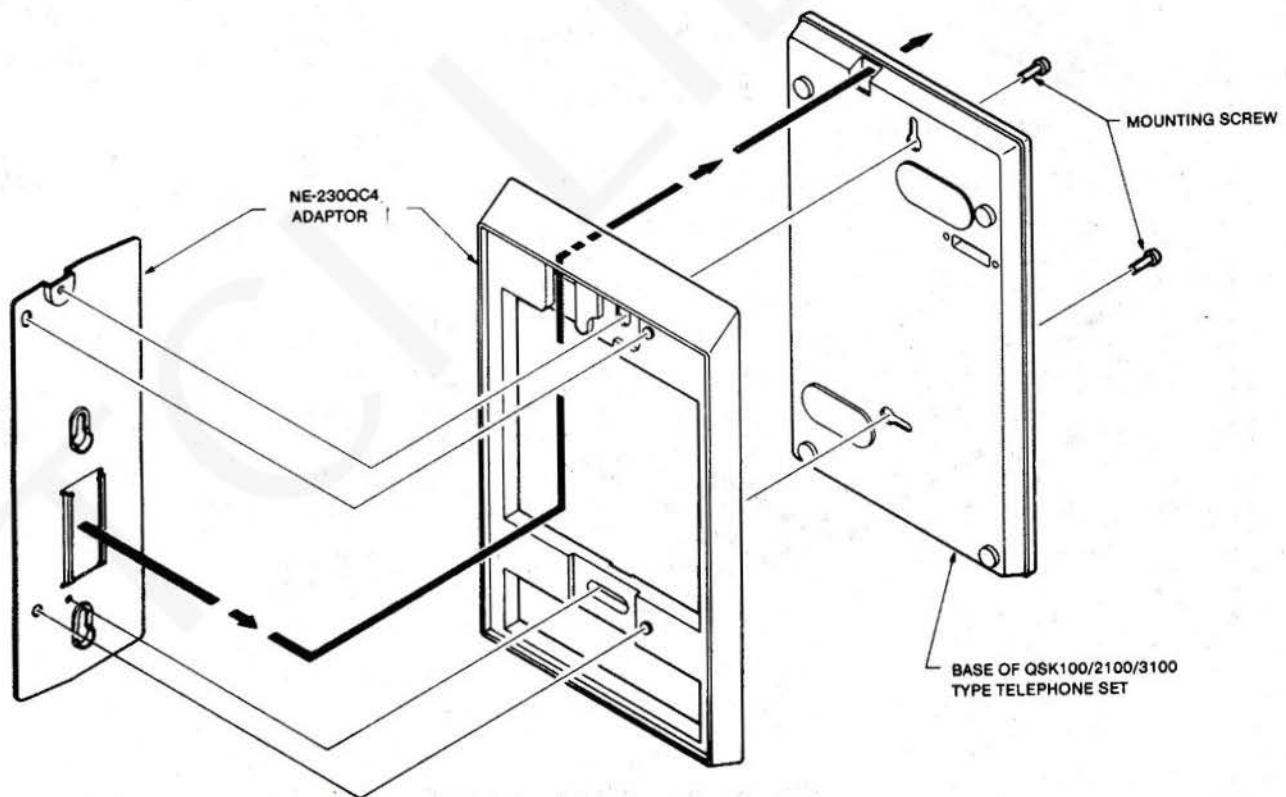


Fig. 19A - NE-230QC4 Adaptor

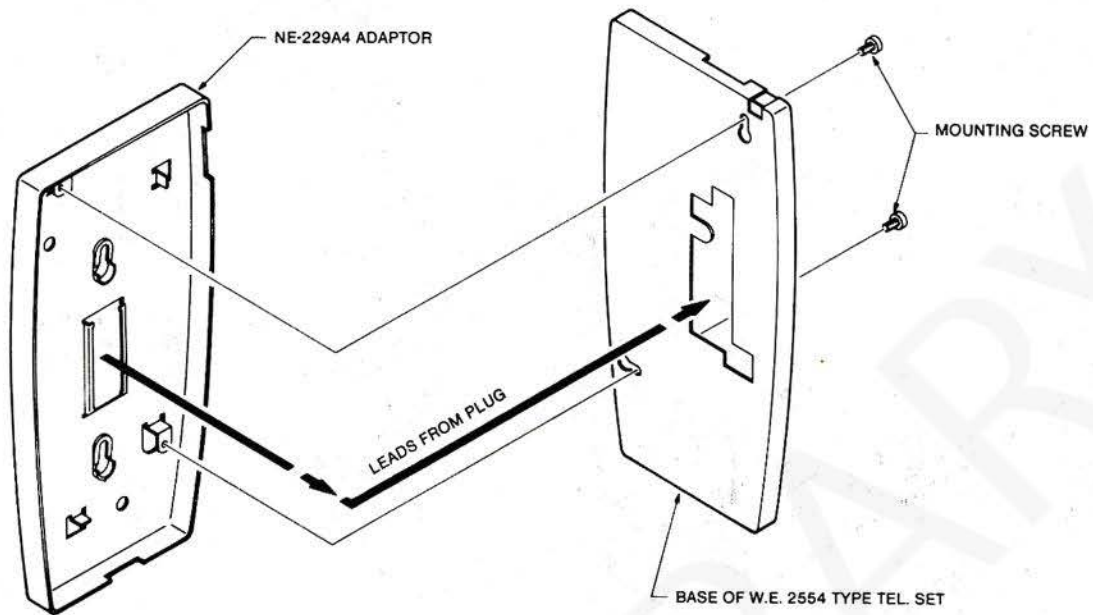


Fig. 20 - NE-229A4 Adaptor

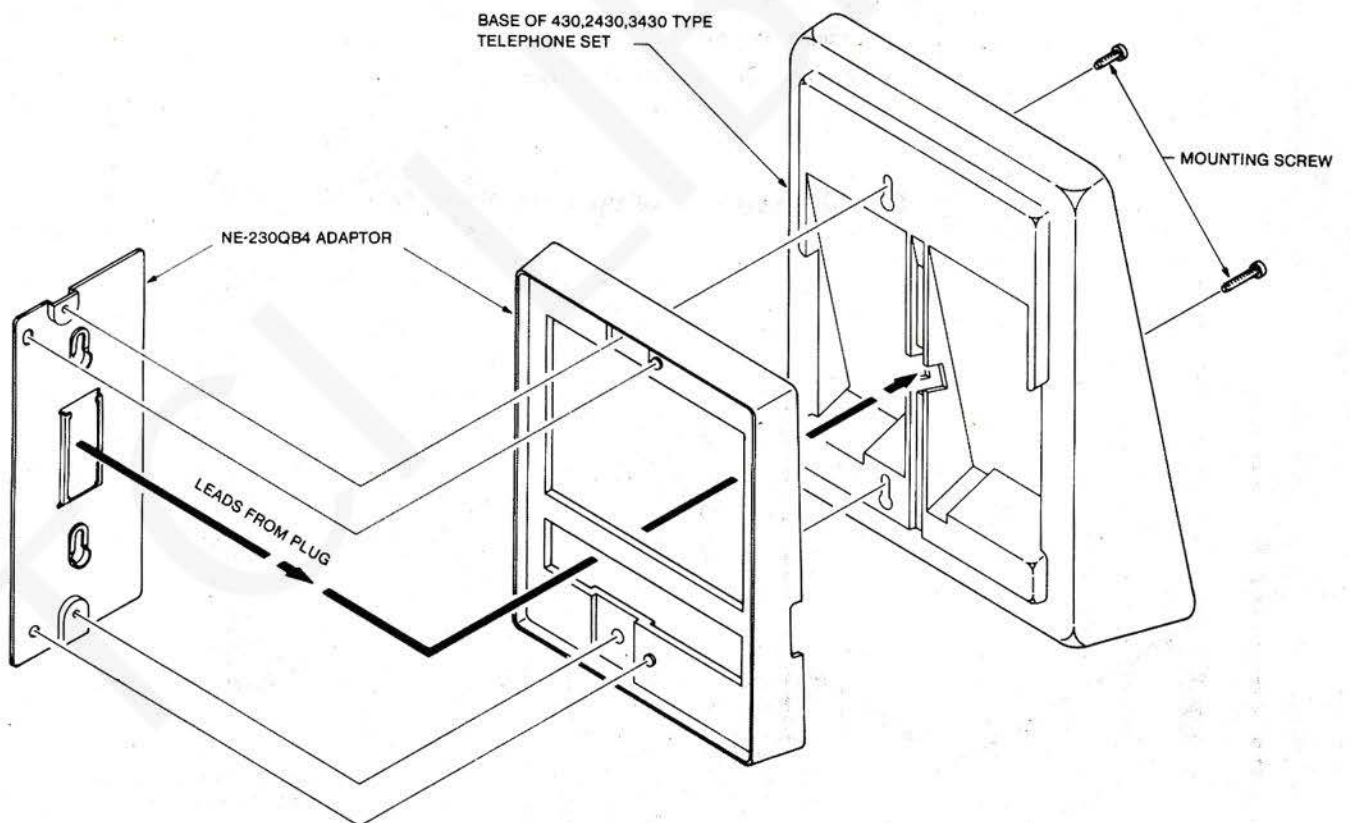


Fig. 21 - NE-230QB4 Adaptor

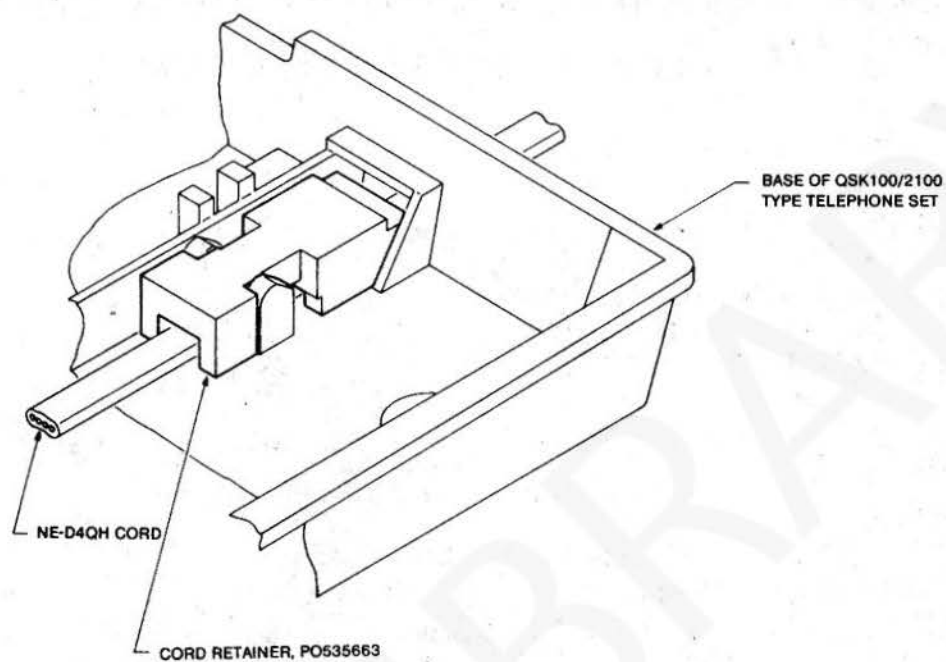


Fig. 22 - Assembly of the Cord Retainer

"TELADAPT"**MINI-PLUGS AND JACKS FOR "PHONE CENTER" CONCEPT****OLD/NEW PART REFERENCE LIST****1. GENERAL**

1.01 This appendix is issued to clarify any problem that may exist with wiring, or with part numbers, until the present stock of parts is depleted.

TABLE A
OLD/NEW PART NUMBER REFERENCE LIST

NEW PART NUMBER	OLD PART NUMBER	NAME
NE-630AQA6	QJA10A	Jack
NE-630AQB6	QJA10B	Jack
NE-625QA6	QJA11A	Jack
NE-630QA6W	P0535439	Jack
NE-191BQA	QBA4A	Backboard
NE-228A4	QAA27A	Adapter
NE-230QA4	QAA27B	Adapter
NE-228QA	QAA27E	Adapter
NE-229A4	QAA27C	Adapter

TABLE B
OLD/NEW WIRING REFERENCE LIST

LEAD DESIGNATION	NEW COLOR	OLD COLOR
R1	R	BL-W
T1	G	W-BL
Gnd	Y	O-W
Aux	BK	W-O
R2	BL	G-W
T2	W	W-G

* Trademark of Northern Electric Company, Limited