

**STATION SET COMPONENTS—CUSTOMER EQUIPMENT**  
**RECEIVER UNITS**  
**APPLICATIONS AND FEATURES**

*Reason for Reissue:* The practice is reissued to incorporate information on available receiver units and to update data included in the previous issue (13 May, 1977). Because of the extent of the changes, revision marks have been omitted.

1.02 The features, general characteristics, applications and operating parameters of each receiver unit are included to assist in obtaining information for replacement or usage purposes.

**1. GENERAL**

1.01 This practice provides essential details, in tabular format, for all receiver units used in station apparatus.

1.03 It should be noted that codes NTOC6AA and NTOC6AB referenced within Table A are in the development phase and will be available in Jan. 1984.

**TABLE A  
RECEIVER UNITS**

	OPERATING PRINCIPLE	APPLICATION	FEATURES	NOMINAL IMPEDANCE AT 1000 Hz	MINIMUM OUTPUT AT 1000 Hz
NE-U1	Ring armature	F,G,H type handsets (in ordinary station usage)	<ul style="list-style-type: none"> <li>- Equipped with No. 44 or NE-100A varistor (Note 3)</li> <li>- Magnetic flux field (Note 4)</li> <li>- Equipped with screw-type terminals</li> <li>- Weight is 72 g</li> <li>- Grid of unit is unpainted aluminum</li> </ul> (Production period: 1955-1977)	150 Ω	2.5 dB PA (Note 1)
NE-U2	Ring armature	F,G type handsets (with private wire arrangements)	<ul style="list-style-type: none"> <li>- Equipped with No. 44 or NE-100A varistor (Note 3)</li> <li>- Magnetic flux field (Note 4)</li> <li>- Equipped with screw-type terminals</li> <li>- Weight is 72 g</li> <li>- Grid of unit is unpainted aluminum</li> </ul> (Production period: 1955-1977)	600 Ω	2.5 dB PA (Note 2)
QUU1A	Balanced armature	G,H, QSE5 type handsets	<ul style="list-style-type: none"> <li>- Equipped with 100A varistor (Note 3)</li> <li>- No magnetic flux field (Note 4)</li> <li>- Equipped with quick-connect terminals</li> <li>- Weight is 73 g</li> <li>- Grid of unit is painted black</li> </ul> (Production period: 1977 - Present)	150 Ω	2.5 dB PA (Note 1)

Table Continued

DISTRIBUTION.....  
 DATE.....  
 O. S. SUPV.....

XX230400A  
 01-2111-100  
 NEW BRUNSWICK TEL ENGRG LIB  
 1 BRUNSWICK SQ  
 SAINT JOHN  
 N B E2L4K2  
 F 07

NOV 20 1983

**TABLE A Continued  
RECEIVER UNITS**

	OPERATING PRINCIPLE	APPLICATION	FEATURES	NOMINAL IMPEDANCE AT 1000 Hz	MINIMUM OUTPUT AT 1000 Hz
QUUIC	Balanced armature	G,H,QSE5 type handsets	<ul style="list-style-type: none"> <li>- Equipped with 100A varistor (Note 3)</li> <li>- Magnetic flux field for inductive coupling of hearing aids (Note 4)</li> <li>- Equipped with quick-connect terminals</li> <li>- Weight is 66 g</li> <li>- Grid of unit painted orange in early models, unpainted aluminum in later models.</li> </ul> (Production period: 1977 - Present)	183 Ω	1.5 dB PA (pre June 1982)  2.5 dB PA (post June 1982) (Note 1)
QUUID	Balanced armature	G,H,QSE5 type handsets	<ul style="list-style-type: none"> <li>- No varistor (Note 3)</li> <li>- No magnetic flux field (Note 4)</li> <li>- Equipped with quick-connect terminals</li> <li>- Weight is 73 g</li> <li>- Grid of unit is painted black</li> </ul> (Production period: 1980 - Present)	150 Ω	2.5 dB PA (Note 1)
QUUIE	Balanced armature	G,H,QSE5 type handsets	<ul style="list-style-type: none"> <li>- No varistor (Note 3)</li> <li>- Magnetic flux field for inductive coupling of hearing aids (Note 4)</li> <li>- Equipped with quick-connect terminals</li> <li>- Weight is 66 g</li> <li>- Grid of unit painted orange in early models, unpainted aluminum in later models.</li> </ul> (Production period: 1980 - Present)	183 Ω	1.5 dB PA (pre June 1982)  2.5 dB PA (post June 1982) (Note 1)
QUUIF	Balanced armature	Explosion proof telephone set (QUUIF replaces HA type receiver unit)	<ul style="list-style-type: none"> <li>- No varistor (Note 3)</li> <li>- No magnetic flux field (Note 4)</li> <li>- Equipped with quick-connect terminals</li> <li>- Weight is 73 g</li> <li>- Grid of unit is painted black</li> </ul> (Production period: 1980 - Present)	150 Ω	2.5 dB PA (Note 1)
QUUIG	Balanced armature	G,H,QSE5 type handsets (for International markets)	<ul style="list-style-type: none"> <li>- No low frequency roll-off</li> <li>- Equipped with 100A varistor (Note 3)</li> <li>- No magnetic flux field (Note 4)</li> <li>- Equipped with quick-connect terminals</li> <li>- Weight is 73 g</li> <li>- Grid of unit is painted black</li> </ul> (Production period: 1982 - Present)	150 Ω	2.5 dB PA (Note 1)

Table Continued

TABLE A Continued  
RECEIVER UNITS

	OPERATING PRINCIPLE	APPLICATION	FEATURES	NOMINAL IMPEDANCE AT 1000 Hz	MINIMUM OUTPUT AT 1000 Hz
NPS25051 LI (R-7)	Centre armature (Note 5)	G,H,QSE5 type handsets	- Equipped with 100A varistor (Note 3) - No magnetic flux field (Note 4) - Equipped with screw terminals - Weight is 50 g - Grid of unit is unpainted aluminum (Production period: 1974 - Present)	150 $\Omega$	1.5 dB PA (Note 1)
QUU2A	Balanced armature	G,H, type handset (when high impedance is required)	- Equipped with 100A varistor (Note 3) - No magnetic flux field (Note 4) - Equipped with quick-connect terminals - Weight is 73 g - Grid of unit is painted black (Production period: 1980 - Present)	600 $\Omega$	2.5 dB PA (Note 1)
NT0C06AA	Dynamic (moving coil)	G,H,QSE5 type handsets	- No varistor (Note 3) - Magnetic flux field for inductive coupling of hearing aids (Note 4) - Equipped with screw terminals - Weight is 76 g - (Grid colour : orange plastic) (Production period: introduction Jan. 1984)	200 $\Omega$	2.5 dB PA (Note 1)
NT0C06AB	Dynamic (moving coil)	G,H,QSE5 type handsets	- Equipped with a 100A varistor (Note 3) - Magnetic flux field for inductive coupling of hearing aids (Note 4) - Equipped with screw terminals - Weight is 76 g - (Grid colour : orange plastic) (Production period: introduction Jan. 1984)	200 $\Omega$	2.5 dB PA (Note 1)

**Notes:**

1. When the receiver unit is powered from a 150  $\Omega$  source with an open circuit voltage of -21.8 dBV.
2. When the receiver unit is powered from a 600  $\Omega$  source with an open circuit voltage of -15.8 dBV.
3. A varistor is used to reduce annoying clicks and prevent potentially hazardous acoustic shocks generated by transient voltages at the input of the receiver unit. In all electronic (ePhone) telephone sets manufactured by Northern Telecom Ltd. the varistor function is in the network; therefore, these sets may utilize a receiver which is not equipped with a varistor. In electromechanical telephone sets however, there is no varistor function incorporated in the network circuitry and, consequently, these sets must use a receiver unit that is equipped with a varistor.
4. The magnetic flux field is provided so that hearing aids equipped with a pick-up coil may inductively couple to the receive signal. (At present, all telephone sets manufactured for Bell Canada by Northern Telecom Ltd. are equipped with receiver units that generate a flux field compatible with hearing aids).
5. This receiver unit is manufactured by Nakayo Telecommunications Inc. (Japan) and is purchased from Keiko Corporation, Tokyo (Japan).