

1A2 KEY TELEPHONE SYSTEM

KEY SERVICE UNITS

QUJ8A — QUJ9A — QUJ10A

IDENTIFICATION & INSTALLATION

1. GENERAL

1.01 This section describes the three sizes of Key Service Units available. The QUJ8A KSU will accept 4 SU or PBX lines, the QUJ9A KSU accepts 7 SU or PBX lines or may be equipped with dial intercom (up to 10 codes) which will reduce the SU or PBX line capacity to 5 lines. They will also accept a QUN11A KTU which reduces the SU or PBX line capacity by one. The QUJ10A KSU will accept 14 SU or PBX lines and may be equipped with dial intercom (19 codes).

1.02 This section is reissued to make minor changes and revise Table A.

1.03 All KSUs have been designed for wall mounting.

1.04 Key telephone units are not supplied with KSUs and must be ordered separately.

2. IDENTIFICATION

2.01 *The QUJ8A Key Service Unit* contains the following apparatus mounted in a metal case measuring approximately 15.9 x 7.9 x 5.7 inches.

- 1 — 66-BN1-25 Connecting Block.
- 4 — 914QB Connectors (Jacks), (18 Pin).
- 1 — 907B Connector (Interrupter Jack).
- 1 — No. 26-4100-8P Amphenol Connector.
(Power Supply Plug)
- 1 — NS19175 L1 Interrupter.
- 1 — QPD5A Power Plant.

2.02 All incoming and outgoing connections will terminate on a 66 type connecting block mounted in the KSU.

2.03 The plug-in type interrupter provided with the QUJ8A KSU is held in place by a captive screw.

2.04 The power plant provided with the QUJ8A KSU is plugged in and held in place with a wing nut. Section 167-419-903 contains the installation and connection information for the power plant.

2.05 KTUs are not supplied with the KSU and must be ordered separately.

2.06 See Section 518-220-900 for section numbers associated with the 1A2 Key Telephone System.

2.07 *The QUJ9A Key Service Unit* consists of a NE-31BQ1A apparatus mounting containing the following apparatus.

- 5 — 914QB Connector Jacks (18 Pins)
- 1 — 914QA Connector Jack (20 Pins)
- 1 — 914A Connector Jack (40 Pins)
- 1 — 907B Connector Jack (Interrupter)
- 1 — NS19175 L1 Interrupter
- 1 — QPD3A Power Plant
- 2 — 66BN1-25 Connecting Blocks
- 1 — 177QB Backboard
- 1 — 116Q1B-49 Cover

2.08 All incoming and outgoing connections will terminate on 2-66 type connecting blocks which are factory-wired to the jacks.

2.09 The plug-in type Interrupter provided with the QUJ9A is held in place by a captive screw.

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2.10 The power plant provided with the QUJ9A is factory-wired to the unit. Section 167-419-901 contains the installation and connection information for QPD3A Power Plant.

2.11 KTUs are not supplied with the KSU and must be ordered separately.

2.12 *The QUJ10A Key Service Unit* consists of a 16CQ1B Apparatus Mounting containing the following apparatus:

- 6 — 914A Connectors
- 8 — 914QA
- 1 — NS8596L32A Connector
- 1 — NS15900 Interrupter
- 1 — NS8596L32A Connector
- 1 — NS15900 Interrupter
- 1 — QPD3A Power Plant
- 4 — 66 Type Connecting Blocks
- 1 — Cover 117Q1B-49

2.13 All incoming and outgoing connections will terminate on 4-66 type connecting blocks which have been equipped with split clips where required.

2.14 The power plant provided with the QUJ10A KSU is factory wired.

2.15 KTUs are not supplied with the KSU and must be ordered separately.

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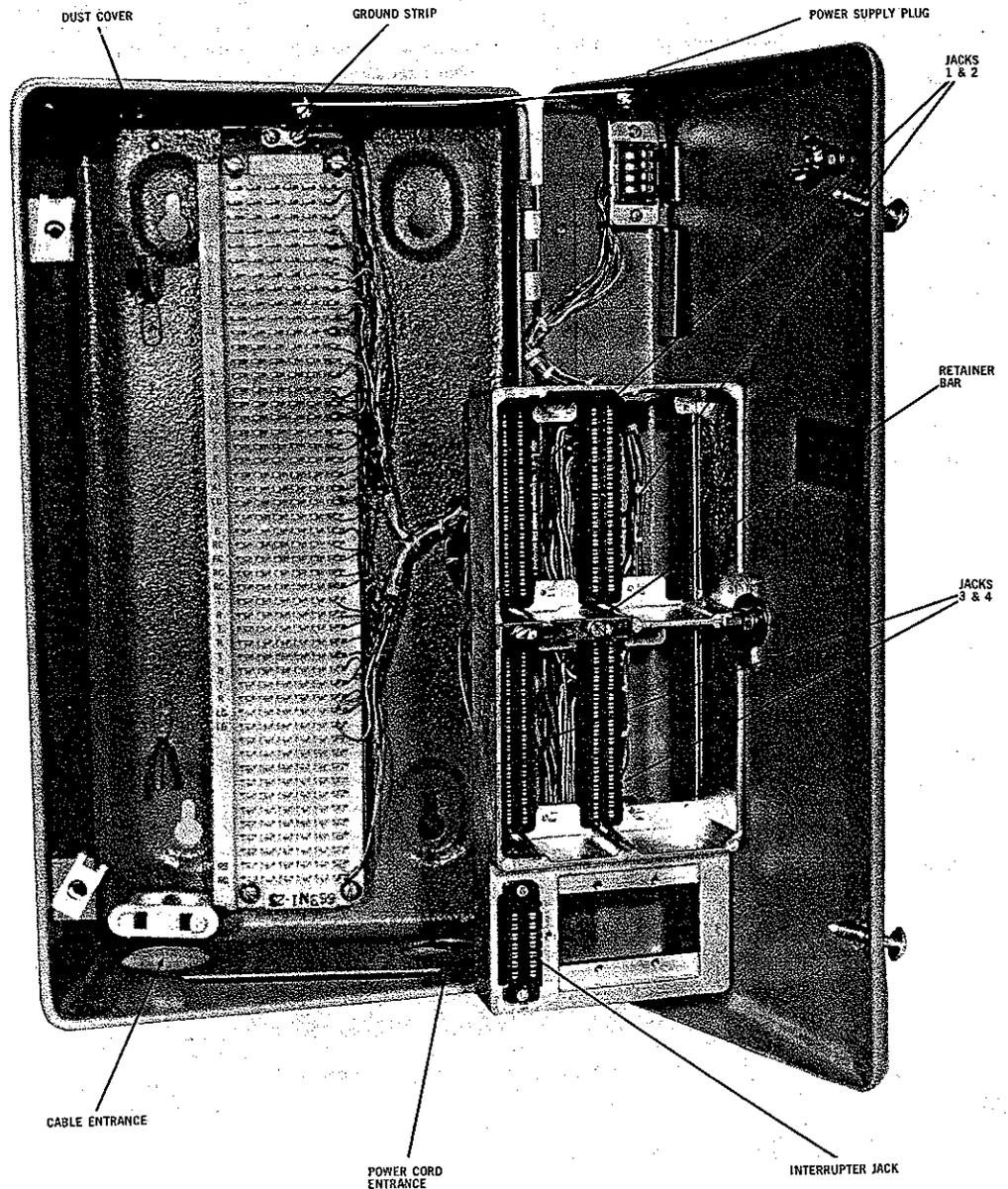


Fig. 1 -- QUJ 8A Key Service Unit
 (Basic Assembly less Plug-in Equipment)

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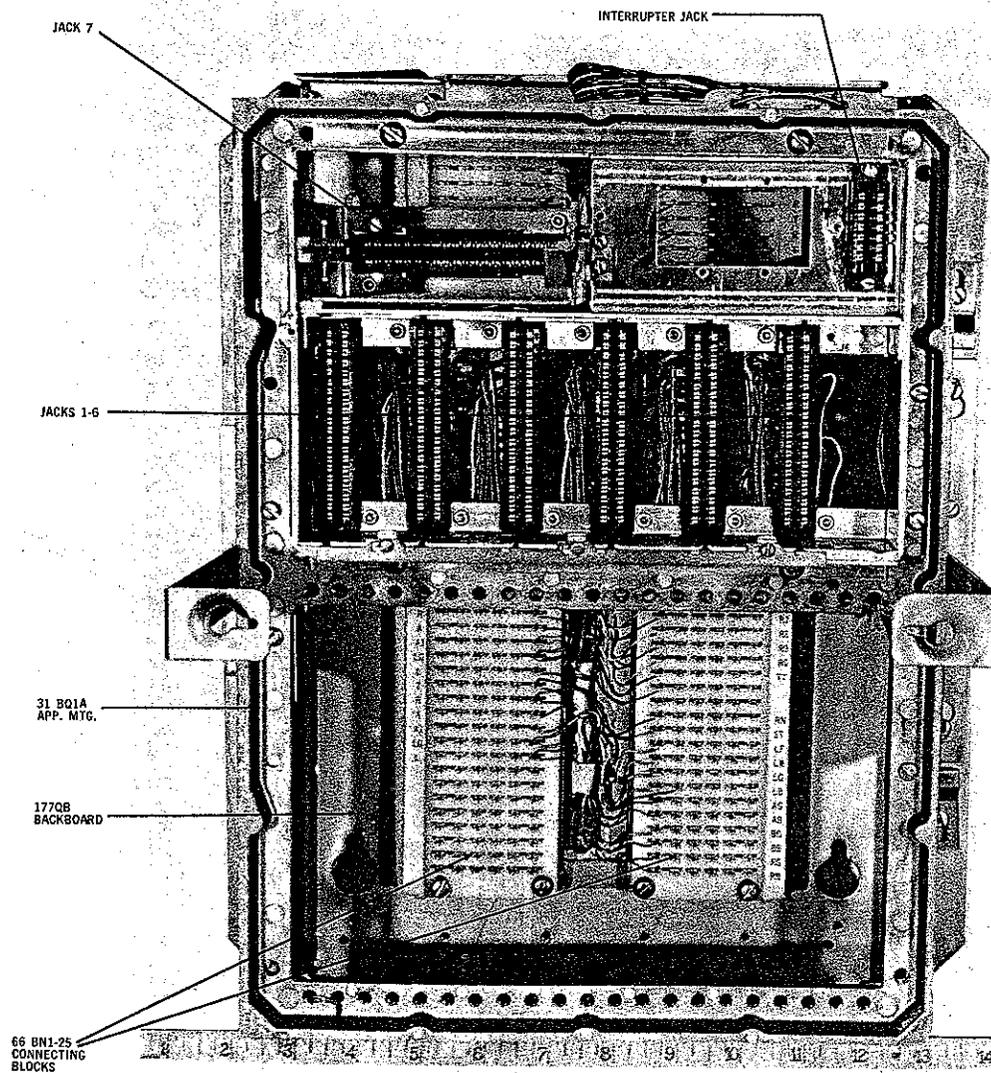


Fig. 2 — QJ 9A Key Service Unit
(Basic Assembly less Plug-in Equipment)

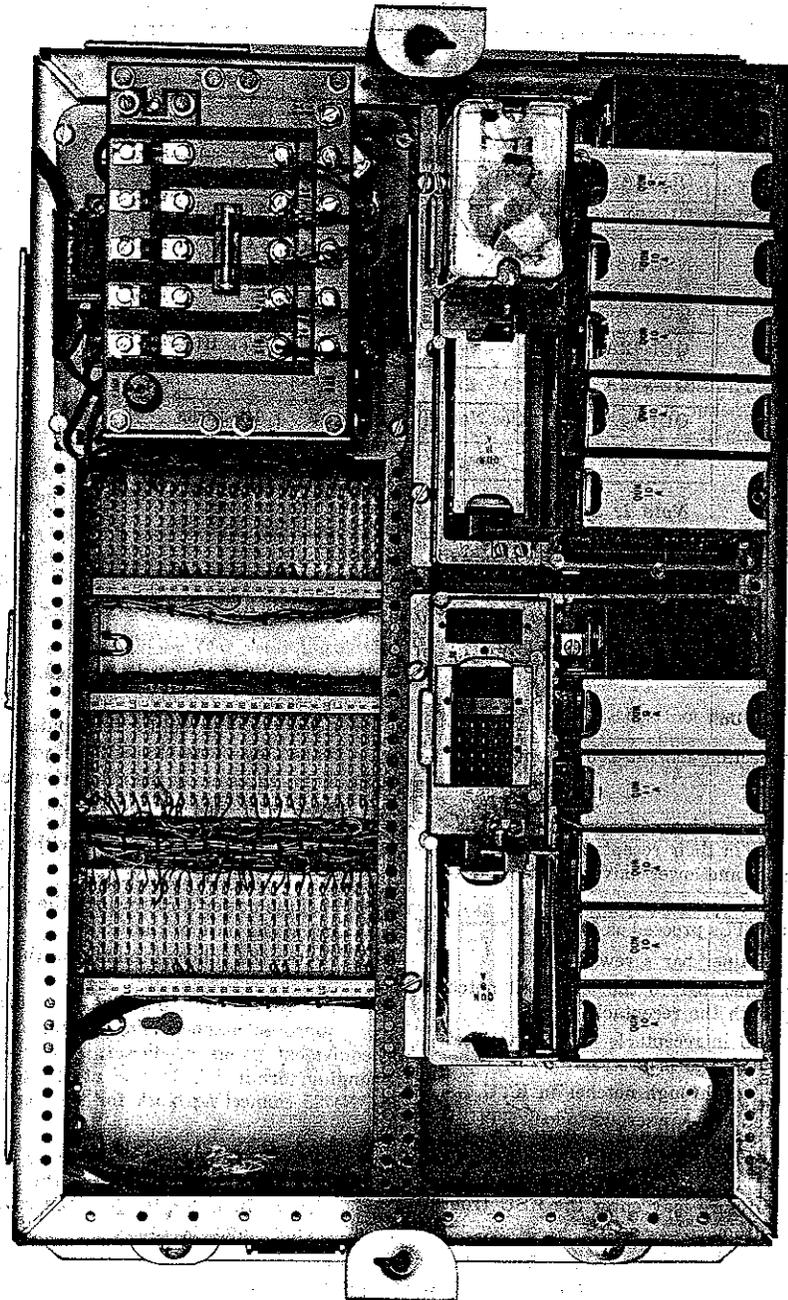


Fig. 3 - QUJ10A Key Service Unit

TABLE A

KTU Type	KSU JK #		
	QUJ8A	QUJ9A	QUJ10A
QUN10A QUN11A	All Jacks		
QUN8A	X	7	All Jacks
QUN9A			All Jacks
NSQ4181 L1		6	A(5-7) B(5-7)
QUN7A			All Jacks
QUN12A			A(5-7) B(5-7)
QUN13A	All Jacks		
QUN14A	See Note 1	See Note 2	All Jacks
QUN15A		6-7	All Jacks

Note 1: The QUJ8A KSU will not accommodate the QUN14A KTU if "Y" and "Z" option are required.

Note 2: Only jack 6 and 7 can be used on the QUJ9A KSU if "Y" and/or "Z" option is required.

3. INSTALLATION

QUJ8A Key Service Unit

3.01 Refer to Section 463-140-200 for mounting information.

3.02 A slide bar retainer (for retaining QUN-type KTUs in their receptacles) is located between the upper and lower halves of the mounting (See Fig. 1).

To insert KTUs proceed as follows:

- (1) Loosen retainer bar screws.
- (2) Slide retainer bar to the left until notch lines up with the receptacle guide.
- (3) Insert KTU in receptacle using a vertical rocking motion to insure seating.
- (4) Slide the bar through notches in KTU.
- (5) Tighten retainer bar screws to lock KTU in place.

3.03 Cables and wire may enter the KSU from top or bottom.

- (1) Relocate the dust cover and cable clamp if necessary.
- (2) Use a 714-type tool for terminating wire in connecting block clips.
- (3) Dress wires along the sides of the connecting block.

3.04 The QUJ8A KSU is shipped with the power plant and power cord.

- (1) Pull the power cord through the cord opening at the base of the KSU.
- (2) Fasten the rubber grommet in the hole.

3.05 Key service unit must be grounded in an approved manner using a number 14 wire or equivalent gauge conductor. A multiple post grounding terminal is located at the top of the 66-BN1-25 connecting block for this purpose.



Note: The QUJ8A KSU has a cover guide which locks when the cover is open. In order to close the cover, the guide must be raised.

3.06 Terminate incoming line (T & R leads) and connect key and running cables (T, R, A, A1, LG & L leads) on connecting blocks as shown in 518-250-901.

3.07 The ± 105 volt audible signal supply (if required) must be supplied from an external source, such as QGG1A freq. gen. or 101G power plant.

Note: The 1A2 system QUN-type KTUs require 20 volts DC power (minimum) signal battery source.

QUJ9A Key Service Unit

3.08 Refer to Section 463-140-200 for mounting information.

3.09 Cables and wire may enter the KSU from the top or bottom.

- (1) Use a 714-type tool for terminating wire in connecting clip.
- (2) Dress wires along the side of the connecting blocks.

3.10 A slide bar retainer (for retaining QUN-type KTUs in their receptacles) is located on the bottom of the mounting. To insert KTUs, proceed as follows:

- (1) Loosen retainer bar screws.
- (2) Slide retainer bar to the left until notch lines up with the receptacle guide.
- (3) Insert KTU in receptacle using a vertical rocking motion to insure seating.
- (4) Slide the bar through notches in KTU.
- (5) Tighten retainer bar screws to lock KTU in place.



3.11 Ground the KSU in an approved manner using a number 14 wire or equivalent gauge conductor. A multiple post grounding terminal is located at the top of the 66-BN1-25 connecting block for this purpose.

3.12 Terminate incoming line (T & R leads) and connect key and running cables (T, R, A, A1, LG and L leads) on connecting block as shown in 518-250-901.

3.13 See 518-220-900 list of sections for options on QUN-type KTUs.

3.14 The ± 105 volt audible signal supply (if required) must be supplied from an external source, such as QGG 1A freq. gen. or 101G power plant.

QUJ10A Key Service Unit

3.15 Refer to Section 463-140-200 for mounting information.

3.16 Cables and wire will enter the KSU from the bottom.

- (1) Use a 714-type tool for terminating wires in connecting clip.
- (2) Dress wires along the side of the connecting blocks.

3.17 Refer to Section 518-250-901 for connecting information.

3.18 Ground the KSU in an approved manner.