

**MISCELLANEOUS INTERTOLL TRUNKS  
AND ASSOCIATED EQUIPMENTS  
RELAY RACK UNITS  
EQUIPMENT DESIGN REQUIREMENTS  
STEP-BY-STEP AND TOLL SYSTEMS**

**1. GENERAL**

**1.001** This addendum supplements Sections 804-001-152 and 814-522-150, Issue 5.

**1.002** This addendum is issued:

- (a) To rate Mfr Disc. codes J61401F, J61401R, J61401AF, and J61401AG.
- (b) To add new codes J61401AH and J61401AJ to replace J61401AF and J61401AG, respectively.
- (c) To revise list 11, rate list 12 Mfr Disc., and add list 13 to J61401A. This change is in agreement with SD-55301-01, Issue 15B.
- (d) To revise lists 2, 3, 5, and 7 and Notes A, B, and C; to rate lists 6 and 8 Mfr Disc.; and to add lists 9 through 11 and Note D to

J61401E. This change is in agreement with SD-64539-01, Issue 16B.

(e) To add lists 3 and 4 and Notes F and G to J61401AJ. This change is in agreement with SD-55109-02, Issue 2D.

(f) To add J61401AK.

The following changes apply to Part 1 of the section:

*Under Subdivisions of Equipment and Detailed Index*

**Remove:** J61401F, J61401R, J61401AF, and J61401AG.

**Add:**

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING
J61401AH	AT&TCo Std	Auxiliary Trunk Unit — Outgoing Dial Repeating — Incoming Automatic or Dialing — For Use With Outgoing Trunk Circuit at Toll Switchboard — Arranged for Use With Simplex or Composite Signaling Type B	J61401AH-( )	SD-64469-02
J61401AJ	AT&TCo Std	Outgoing Trunk Unit — From Intertoll Selector Multiple — For Use With Simplex or Composite Signaling Type A or B	J61401AJ-( )	SD-55109-02
◆ J61401AK	AT&TCo Std	Intertoll Dialing Rotary Out Trunk Switch Arranged for Preselection ◆	J61401AK-( )	SD-55945-02

*Under Circuit Schematic Index*

*Remove:*

CIRCUIT DRAWING	J61401 EQPT CODE
SD-55109-01	F, AG
SD-64469-01	R, AF

*Add:*

CIRCUIT DRAWING	J61401 EQPT CODE
SD-55109-02	AJ
◆ SD-55945-02	AK ◆
SD-64469-02	AE

**4. EQUIPMENT**

The following changes apply to Part 4 of the section:

◆ *Under J61401A*

*Change:* List 11

*To Read:*

*List 11*—Framework, assembly, wiring, and equipment for a 2-circuit intertoll dialing outgoing trunk unit per SD-55301-01, Fig. 1 and B, with B, F, J, and ZE apparatus and ZR wiring. (No. of Mtg Plts 3—No. of Ckts 2)

*Rate:* List 12 Mfr Disc.

*Add:* List 13

*List 13*—Wiring and equipment per SD-55301-01, Fig. 5, ZP apparatus and wiring, required in addition to list 11 when connection to an intertoll dial selector multiple is required (omit ZR wiring).

*Under J61401E*

*Change:* Lists 2, 3, 5, and 7

*To Read:*

*List 2*—Equipment per SD-64539-01, C option only, required in addition to list 9 for trunk impedances at 1000 Hz of 1200 ohms or less. (See Note A.)

*List 3*—Equipment per SD-64539-01, D option only,

required in addition to list 9 for trunk impedances at 1000 Hz of greater than 1200 ohms. (See Note A.)

**List 5**—Wiring and equipment per SD-64539-01, R option only, required in addition to list 7 when busy group registration is required. (See Note D.)

**List 7**—Wiring and equipment per SD-64539-01, J and M options only, required in addition to list 9 except when the trunk is associated with any No. 4 toll or crossbar tandem system and the step-by-step switchtrain has one rank of switches omitted. (See Note D.)

**Rate:** Lists 6 and 8 Mfr Disc.

**Add:**

**List 9**—Assembly, wiring, and equipment for one outgoing trunk per SD-64539-01, Fig. 1 and B, with N, T, V, and Y options. (See Notes A, B, and C.) (No. of Mtg Plts 1—No. of Ckts 1)

**List 10**—Wiring and equipment per SD-64539-01, H and ZD options only, required in addition to list 9 when the trunk is associated with any No. 4 toll or crossbar tandem system and where the step-by-step switchtrain has one rank of switches omitted. It also provides for connection to the group-busy register. (See Note D.)

**List 11**—Wiring and equipment per SD-64539-01, Fig. 2, required in addition to list 9 for the building-out capacitor.

**Change:** Notes A, B, and C

**To Read:**

- A. Use U and Q options when government material restrictions are placed on C and D options, respectively.
- B. Provide X option in addition to list 9 when the incoming trunk at the desk is jack- or key-ended.
- C. Provide ZC option for a No. 23 type desk only; for all others, provide ZB option.

**Add:** Note D

D. Lists 7 and 10 cannot be furnished on the same unit.¶

**Rate:** J61401F and J61401R Mfr Disc.

**Under J61401AE, Lists 1 and 2**

**Remove:** References to J61401R and SD-64469-01.

**Rate:** J61401AF and J61401AG Mfr Disc.

**Add:**

**J61401AH—AT&T Co Std—Auxiliary Trunk Unit—Outgoing Dial Repeating—Incoming Automatic or Dialing—For Use With Outgoing Trunk Circuit at Toll Switchboard—Arranged for Use With Simplex or Composite Signaling Type B**

Equipment—J61401AH( )

**List 1**—Assembly, wiring, and equipment for a single circuit, 2-way trunk unit arranged for conversion to an incoming trunk only per SD-64469-02, App Fig. 1, with options M and Z. (See Notes A, B, C, and D.) (No. of Mtg Plts 1—No. of Ckts 1)

**List 2**—Equipment required in addition to list 1 when a timed off-hook signal on initial seizure from a No. 4A or 4M toll crossbar or No. 5 crossbar office is required per SD-64469-02, App Fig. 3 (D4 circuit pack).

**List 3**—Wiring and equipment required in addition to list 1 when a building-out capacitor for an incoming trunk is required per SD-64469-02, App Fig. 4.

**List 4**—Wiring and equipment required in addition to list 1 when building-out capacitors for a 2-way trunk are required per SD-64469-02, App Fig. 4 and 5.

**Notes**

- A. When the unit per list 1 is required for use as an incoming trunk only, the installer shall add option Y straps and cut option Z straps at the terminal strip.
- B. Option W is required for automatic directional splitting.

- C. If units per list 1 are not to have the C lead connected to a patching jack circuit, and the intertoll circuits are associated with V1-, V2-, V3-, or 44-type repeaters, the installer shall connect option V at the unit terminal strip. Option V shall not be connected with 22-type repeaters.
- D. Option X is required when direction splitting is not specified.
- E. The MB relay is stamped and wired per SD-64469-02, Fig. 1, option K, when manual directional splitting is required.

**J61401AJ—AT&T Co Std—Outgoing Trunk Unit—From Intertoll Selector Multiple—For Use With Simplex or Composite Signaling Type A or B**

Equipment—J61401AJ-( )

- List 1**—Assembly, wiring, and equipment for a 2-circuit outgoing trunk unit with provision for any of the following features: voice-frequency termination during idle condition and/or connection to group busy register or traffic usage recorder is required when connection to a CAMA decoder circuit is required without connection to group busy register or traffic usage recorder circuit, per SD-55109-02, Fig. 1, 2, and 3. (No. of Mtg Plts 1—No. of Ckts 2)

**List 2**—Wiring and equipment required in addition to list 1 where sleeve guard is provided by this circuit per SD-55109-02, Fig. 4.

**List 3**—Wiring and equipment required in addition to list 2 for automatic make-busy on carrier failure and when the trunk is connected to a CAMA selector arranged to place an integrity check on the SP lead per SD-55109-02, K and L options.

**List 4**—Wiring and equipment required in addition to list 2 for automatic make-busy on carrier failure and when the trunk is not connected to a CAMA selector arranged to place an integrity check on the SP lead per SD-55109-02, K option.

**Notes**

- A. Provide option Y at the unit terminal strip in addition to list 1 when connection to traffic

usage recorder for use on ground busy is required.

- B. Provide option K at the unit terminal strip in addition to list 1 when connection to traffic usage recorder for use on ground idle is required.
- C. When connection to CAMA is required, provide option W.
- D. When connection to group busy time register is required, provide option Z.
- E. Provide option N for TUR when loop control is required.
- F. Furnish option Y when list 2 is not furnished.
- G. Furnish option M when list 3 is not furnished.

**Add:**

**J61401AK—AT&T Co Std—Intertoll Dialing Rotary Out Trunk Switch Arranged for Preselection**

Equipment—J61401AK-( )

**List 1**—Framework, assembly, wiring, and equipment for one initial 10-switch unit for trunks from intertoll selectors in the same building. (No. of Mtg Plts 9—No. of Ckts 10)

	WIRE	EQUIP	NOTES
Rotary Out Trunk Switch Ckt, SD-55945-02:			
Fig. 1	10	10	
Fig. 2	10	10	
Fig. 3	1	1	
Fig. 5	1	1	
Fig. 6 & Y Option	10	0	
Fig. 7	5	0	

**List 2**—Framework, assembly, wiring, and equipment for one initial 10-switch capacity rotary out trunk switch unit for connection to auxiliary intertoll trunk circuits from a distant office or intertoll selectors in the same office when 120 i/m tone is required. (No. of Mtg Plts 9—No. of Ckts 10)

	WIRE	EQUIP	NOTES
Rotary Out Trunk Switch Ckt, SD-55945-02:			
Fig. 1	10	10	
Fig. 2	10	10	
Fig. 3	1	1	
Fig. 4	1	1	
Fig. 6 & Y Option	10	0	
Fig. 7	5	0	
Fig. 8	1	0	

**List 3**—Framework, assembly, wiring, and equipment for one supplementary 10-switch capacity rotary out trunk switch unit for use in addition to list 1 or 2 for additional auxiliary intertoll trunks from a distant office or from intertoll selectors in the same building. (No. of Mtg Plts 8—No. of Ckts 10)

	WIRE	EQUIP	NOTES
Rotary Out Trunk Switch Ckt, SD-55945-02:			
Fig. 1	10	10	
Fig. 3	1	1	
Fig. 6 & Y Option	10	0	
Fig. 7	5	0	

**List 4**—Equipment per SD-55945-02, Fig. 6, required in addition to list 1, 2, or 3 for the rotary outgoing trunk switch circuit (maximum 10 per unit).

**List 5**—Equipment per SD-55945-02, Fig. 7, required in addition to every odd-numbered list 4 (maximum 5 per unit).

**List 6**—Equipment per SD-55945-02, Y option, required in addition to list 4 when building-out capacitors are required.

**List 7**—Equipment per SD-55945-02, Fig. 8, required in addition to list 2 when there are incoming intertoll trunks from more than one distant office to a rotary out trunk switch unit.

**5. GENERAL NOTES**

The following changes apply to Part 5 of the section:

*Under List of A&M Only and Mfr Disc. Equipment*

*Change:*

EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
J61401F	A&M Only	4	—
J61401R	A&M Only	2	—
J61401AG, L1	Mfr Disc.	4	J61401AG, L2

*To Read:*

EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
J61401F	Mfr Disc.	5	—
J61401R	Mfr Disc.	5	—
J61401AG	Mfr Disc.	5	J61401AJ

*Add:*

EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
φJ61401A,L12 J61401E,L6 &L8	Mfr Disc.	5	J61401A,L13 J61401E,L9 &L10
J61401AF	Mfr Disc.	5	J61401AH

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