# ROUTING SELECTED TRANSMISSION CONTROL (RSTC) LOOP AROUND AND GAIN TRUNK CIRCUITS EQUIPMENT DESIGN REQUIREMENTS COMMON SYSTEMS

#### 1. GENERAL

SCOPE

1.01 This specification, together with supplementary information listed herein, describes equipment requirements for routing selected transmission

control (RSTC), loop around and gain trunk circuits.

1.02 Whenever this specification is reissued, the reasons for reissue will be listed in this paragraph.

#### CAPACITY

1.03 The RSTC is intended to be mounted in a No. 1 ESS frame (ED-1A150-70 or equivalent).
Designed as a single shelf assembly, it comes complete with backplate and cover. The shelf assembly can be mounted in any available space in the No. 1 ESS frame.

1.04 The RSTC loop around and gain trunk circuits require filtered and fused 24 Vdc power, which is available from the fuse panel in the ESS frame. The power wiring is so arranged that each half of the shelf assembly can be fused separately.

#### DESCRIPTION

1.05 The RSTC loop around and gain trunk circuit specification consists of a single shelf assembly, wired in a double module arrangement. Two plug-in modules are required for each circuit and each shelf assembly can provide for up to six circuits (total of 12 plug-in modules). When more than six circuits are required, additional shelves must be ordered.

1.06 The J99392A RSTC shelf assembly (Fig. 1) consists of a 23-inch steel stamped shelf, a stamped cover, and a stamped, factory wired backplate. A set of adapter plates provides for mounting the shelf into the 26-inch ESS frame. The backplate is equipped with twelve 928A wire-wrap connectors. The shelf assembly occupies a space of 26-inch wide by 10-1/2 inch deep by 8-1/2 inch high in the ESS frame.

1.07 The J99392AA loop around trunk circuit (Fig.

2) is a plug-in unit that provides the interface and control circuitry between the controlled gain transmission circuit and the ESS switching machine. This unit consists of components mounted on a double sided printed wiring board, supported in a plastic card holder, with an adhesive backed designation label attached to the front face of the holder. Connections to the shelf are through the gold plated connector at the rear of the unit. The unit occupies a space of 1-3/4 inches wide by 8 inch high and 9 inches deep in the RSTC shelf.

1.08 The J99392BA controlled gain transmission unit plug-in (Fig. 2) provides selective gain for trunk-to-trunk connections on 900-ohm circuits. Predetermined values of gain and loss are voice controlled in this unit. Physically, the J99392BA is the same size as the J99392AA and is mounted on the same type board and card holder. This transmission unit is designed specifically for use in RSTC and is not a general purpose terminal-to-terminal repeater.

#### 2. SUPPLEMENTARY INFORMATION

- 801-000-000-Numerical Index-Common Systems
- 800-020-000-Cross Reference List-J, NJ, IS, and X Specifications to BSP Numbers
- 800-020-020-Cross-Reference List-AA Series to Nine-Digit BSP Numbers
- 800-600-000-Checking List-General Equipment Requirements
- X-79402-Manufacturing Testing Requirements for J99392

## NOTICE

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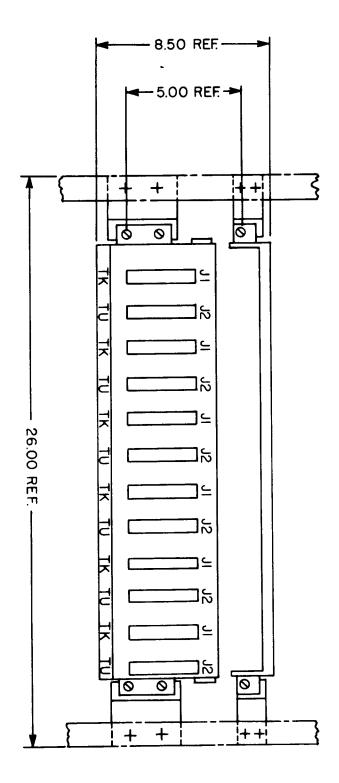


Fig. 1-J99392A RSTC Shelf Assembly

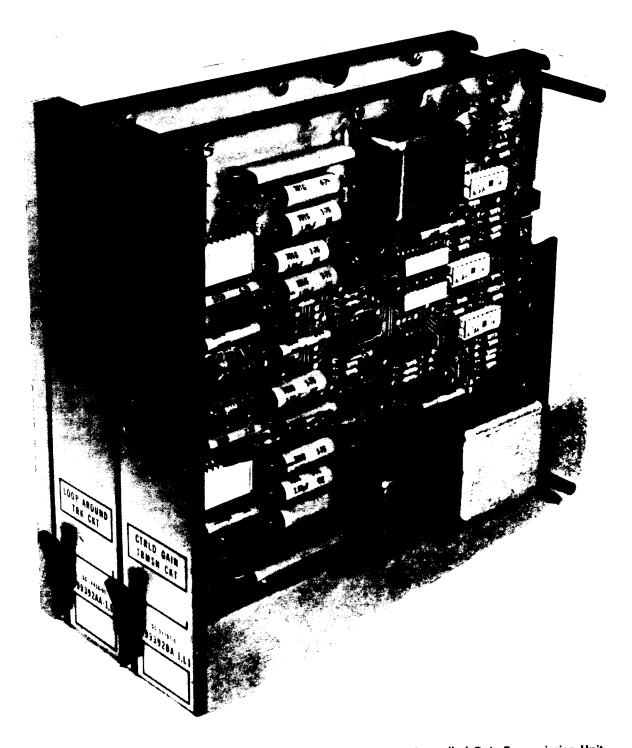


Fig. 2—J99392AA Loop Around Trunk Circuit And J99392BA Controlled Gain Transmission Unit

#### 3. DRAWINGS

All drawings forming a part of this specification are listed under SUBDIVISIONS OF EQUIPMENT AND DE-TAILED INDEX.

#### 4. EQUIPMENT

## J99392A-AT&TCo Std-RSTC Loop Around and Gain Trunk Circuits, Shelf Assembly

List 1—Assembly, wiring, and equipment for one shelf assembly wired per FS1 of SD-97757-01. Provides for up to six loop around and gain trunk circuits, each circuit consisting of two plug-in circuit packs. (See Note A.)

Note

A. Plug-in circuit packs must be ordered separately as required.

## J99392AA-AT&TCo Std-RSTC Loop Around Trunk Circuit

List 1—Assembly, wiring, and apparatus for one RSTC loop around trunk circuit. Provides one circuit pack plug-in per SD-1A456-01 (See Note A).

Note

A. This circuit pack is always used in combination with a J99392BA circuit pack.

## J99392BA-AT&TCo Std-RSTC Controlled Gain Transmission Unit

List 1-Assembly, wiring, and apparatus for one RSTC controlled gain transmission unit. Provides one circuit pack per CPS1 of SD-97757-01 (See Note A).

## Note

A. This circuit pack is always used in combination with a J99392AA circuit pack.

#### 5. GENERAL NOTES AND INDEXES

5.01 The plug-in units are not furnished with the shelf listed herein and must be ordered separately.

J99392AA-()Loop Around Trunk Circuit J99392BA-()Controlled Gain Transmission Unit

5.02 The RSTC loop around and gain trunk circuit, always consist of one each, J99392AA and J99392BA plug-ins, which mate with 928A connectors, mounted at the rear of the J99392A shelf. The trunk circuit (J99292AA) always plugs into the J1 position (marked "TK") of the two slot combination. The controlled gain unit (J99292BA) plugs into the J2 position (marked "TU"), on the shelf front.

5.03 In addition to being identified by means of J spec stamping on the designation label, the two plug-ins are also identified by means of color coding. The J99392AA is marked with the "RSTC" acronym in aluminum color on a black background and the J99392BA has the colors reversed (black letters on an aluminum background).

5.04 All strap wiring between circuits on the rear of the shelf is factory wired. All leads connecting the shelf with the local switching center (also 24 Vdc power source leads) are installer wired when the shelf is mounted in the ESS bay. Leads are attached by wire wrapping to the 928A connector terminals.

5.05 Codes J99392B through Y, AB through AY and BB through BY are unassigned.

## SUBDIVISIONS OF EQUIPMENT AND DETAILED INDEX

WE J drawings should be ordered by referring to the prefix and base number and requesting the current dash (-) number.

EQUIPMENT CODE	AT&T RATING OF UNIT	TITLE	EQUIPMENT DRAWIN G	CIRCUIT DRAWING
J99392A	Std	RSTC Loop Around and Gain Trunk Circuits Shelf Assembly	J99392A-()	SD-97757-01
J99392AA	Std	RSTC Loop Around Trunk Circuit	<b>J99392AA</b> -()	SD-1A456-01
J99392BA	Std	RSTC Controlled Gain Transmission Unit	<b>J99392BA</b> -()	SD-97757-01

## **Circuit Schematic Index**

CIRCUIT DRAWING	J99392 EQUIP CODE	
SD-97757-01	A,BA	
SD-1A456-01	AA	

Bell Telephone Laboratories, Incorporated

Dept. 4161