

SS1 SELECTIVE SIGNALING SYSTEM

EQUIPMENT DESIGN REQUIREMENTS

COMMON SYSTEMS

1. GENERAL

Scope

1.01 This specification, together with the supplementary information listed herein, covers the equipment design requirements for equipment and installation of the SS1 selective signaling system.

1.02 This specification is reissued to incorporate Appendixes 1 and 2 into the body of the specification and to update information contained therein.

Capacity

1.03 The SS1 selective signaling system is capable of providing a maximum of 81 codes.

Description

1.04 *The SS1 selective signaling system* is a 4-wire multistation arrangement which provides service for telephone offices or way station line leased facilities. Eighty-one stations may be called by simply dialing two digits on a standard dial. The units and associated equipment comprise the arrangements for selective signaling and are designed for use with 2600- and 2400-cycle frequency shift signaling. The associated 2600-cycle single-frequency signaling unit may be located at a central office or a way station. See Table A for a summary and application of the various packaged units that are available.

1.05 *The J99252K decoder* unit provides for a maximum of nine codes in any tens digit. This unit is used in connection with an SF signaling circuit either directly or via a DX signaling circuit. The circuit is connected to the E lead of the SF circuit for the purpose of counting and registering 2-digit dial pulse codes. The digit 1 is not used as a code number but is used

instead for a cancellation function of incorrect or undesired code selection. This unit also provides a test jack circuit, a V3 amplifier to adjust the 2600-cycle transmission level, heater resistances for the V3 amplifier, and a 1C pad to adjust the transmission level to the customer receiver.

1.06 *The J99252B sending and code relay unit* provides for a maximum of 72 codes in addition to the nine codes furnished by the decoder unit. This unit is designed to store a first digit and to connect nine code leads (representing a possible nine digits), one of which will be energized at the end of the second digit. Fig. 2 of the code relay circuit furnishes decoding for nine codes in any tens digit. This unit also opens the transmitting circuit between the telephone set and the keyer, stops associated timing circuits, and operates to prevent the decoder from functioning.

1.07 *The J99252L keyer unit* provides 2400- and 2600-cycle tone for transmission on a frequency shift basis. It extends the duration of the first of a series of consecutive pulses to enable the distant SF receivers to operate and cause associated circuits to open the M leads. The keyer unit also supplies busy tone.

1.08 *The J99252D selective signaling control unit* is a packaged unit of associated units which comprise the arrangements for a selective signaling system designed for use with 2400- and 2600-cycle signaling. It provides a 2-digit signaling system capable of 81 separate and distinct codes.

1.09 *The J99252E 4-wire loop terminating dc sending, and loop signaling receiving relay unit* provides for terminating the loop circuits to the customer, for passing a code pulse over a loop to signal a customer, and also for repeating dial pulses between the sending circuit at the way station and the keyer in the central office.

1.10 *The J99252F pulse repeating and busy-tone unit* provides for opening of the loops to the way station and switches busy tone during the dialing interval, which is controlled by the decoder unit. This unit is also associated with the pulsing circuit in the keyer unit and a function for the first and second loops. If a third loop is required, a second pulse repeating and busy tone unit is required.

1.11 *The J99252G interarea switching unit* provides for interarea transmission switching. Upon reception of a connect code from either area, this unit completes the interarea connection. When a disconnect code is received from either area, this unit breaks the interarea connection.

1.12 *The J99252H guard transfer busy-tone and loop cutoff unit* functions to open the loops to the way station and applies busy tone during the dialing interval. It is used at the central office when only one 4-wire loop is connected to the associated bridge and more than two codes are specified. It also provides for excluding noise from the backbone circuit in connection with loop cutoff arrangements. Test jacks are provided for maintenance purposes in the E&M signaling paths.

1.13 *The J99252J sending and receiving one or two codes unit* is associated with the dial and keyer unit and functions to repeat dial pulses and to perform off-normal functions. It is located only at the way station. This unit also receives one or two code pulses from the telephone office and passes the pulse to key equipment which provides a visual answering lamp and audible signal.

1.14 *The J99252M fuse indicator unit* provides fusing for -48 and +130 volts and is used at the way stations when these voltages are not already available. The 70-type fuse on this unit provides a colored bead which indicates fuse operation.

1.15 *The J99252N common control unit* provides the privacy feature and is arranged to connect with the standard SS1 packaged unit which consists of the decoder, sending relay, and keyer units. This unit also determines call direction; stores disconnect signal information; develops the dc unlock pulse; provides the override

key feature, the privacy feature, and the exclusion key for manual lockout; and furnishes termination for one subset. When more than one subset termination is required, the station control unit (J99252P) may be added to furnish an optional arrangement of up to five subsets. The common control unit and station control unit combined provide termination for a maximum of 81 subsets.

1.16 *The J99252P station control unit* provides the preference lockout for the number one and two dial leads, and also termination for additional subsets to a maximum of five per J99252P unit.

1.17 *The J99252R station control unit without system lockout* provides the preference lockout for the number one and two dial leads, and an optional arrangement for terminating a maximum of six subsets which includes the original equipped subset. This arrangement provides on-premises dialing and is not equipped for privacy.

1.18 *The J99252AA private service system central office send and receive one or two codes over one loop unit* is a packaged unit of associated units which were explained previously under J99252E, J99252K, and J99252L. It provides for sending and receiving one or two codes over a one-loop arrangement.

1.19 *The J99252AC private service system central office send and receive more than two codes over one loop unit* is a packaged unit of associated units which were explained previously under J99252E, J99252H, and J99252L. It provides for sending and receiving more than two codes to a maximum of 81 codes over one loop. The number of codes is determined by way station requirements.

1.20 *The J99252AD private service system central office send and receive more than two codes over one loop with loop cutoff unit* is a packaged unit of associated units which were explained previously under J99252E and J99252K. It provides for sending and receiving more than two codes to a maximum of 81 codes over one loop with loop cutoff. The number of codes is determined by way station requirements.

- 1.21** *The J99252AE private service system central office receive one or two codes over one loop unit* is a packaged unit of associated units which were explained previously under J99252E and J99252K. It provides for receiving only one or two codes over a one-loop arrangement.
- 1.22** *The J99252AF private service system central office send over one loop unit* is a packaged unit of associated units which were explained previously under J99252E and J99252L. It provides for sending dial pulses over only one loop between the sending unit at the way station and the keyer unit in the central office.
- 1.23** *The J99252AG private service system central office send and receive one or two codes per loop over two loops unit* is a packaged unit of associated units which were explained previously under J99252E, J99252F, J99252K, and J99252L. It provides for sending and receiving one or two codes per loop over a two-loop arrangement.
- 1.24** *The J99252AH private service system central office send and receive one or two codes over first loop and more than two codes over the second loop unit* is a packaged unit of associated units which were explained previously under J99252E, J99252F, J99252K, and J99252L. It provides for sending and receiving one or two codes over the first loop and more than two codes to a maximum of 81 codes over the second loop. The number of codes for the second loop is determined by way station requirements.
- 1.25** *The J99252AJ private service system central office send and receive more than two codes per loop over two loops unit* is a packaged unit of associated units which were explained previously under J99252E, J99252F, J99252K, and J99252L. It provides for sending and receiving more than two codes to a maximum of 81 codes over two loops. The number of codes is determined by way station requirements.
- 1.26** *The J99252AK private service system central office send and receive one or two codes per loop over three loops unit* is a packaged unit of associated units which were explained previously under J99252E, J99252F, J99252K, and J99252L. It provides for sending and receiving one or two codes per loop over a three-loop arrangement.
- 1.27** *The J99252AL private service system central office send and receive one or two codes per first loop and more than two codes per second and third loops over three loops unit* is a packaged unit of associated units which were explained previously under J99252E, J99252F, J99252K, and J99252L. It provides for sending and receiving one or two codes over the first loop and more than two codes to a maximum of 81 codes over the second and third loops. This unit is arranged for 3-loop operation. The number of codes for the second and third loops is determined by the way station requirements.
- 1.28** *The J99252AM private service system central office send and receive more than two codes per loop over three loops unit* is a packaged unit of associated units which were explained under J99252E, J99252F, J99252K, and J99252L. It provides for sending and receiving more than two codes to a maximum of 81 codes per loop arranged for 3-loop operation. The number of codes per loop is determined by way station requirements.
- 1.29** *The J99252AN private service system central office send and receive more than two codes per first loop and one or two codes per second and third loops unit* is a packaged unit of associated units which were explained previously under J99252E, J99252F, J99252K, and J99252L. It provides for sending and receiving more than two codes to a maximum of 81 codes over the first loop and one or two codes over the second and third loops. This unit is arranged for 3-loop operation. The number codes for the first loop is determined by way station requirements.
- 1.30** *The J99252AP private service system central office interarea switching unit* is a packaged unit of associated units which were explained previously under J99252G and J99252K. It provides an arrangement for interarea switching for connecting areas which are in different central offices.
- 1.31** *The J99252AR private service system central office interarea switching unit* may be mounted below an associated SS1 selective signaling packaged unit. It was previously explained under J99252G. This unit provides an arrangement for interarea switching for connecting areas, both of which are extended to the same central office.

- 1.32** *The J99252BA private service system way station send and receive one to nine codes unit* is a packaged unit of associated units which were explained under J99252J and J99252K. It provides for sending and receiving one to nine codes and may be arranged for loop cutoff or standard transmission.
- 1.33** *The J99252BB private service system way station send and receive one code unit* provides for sending and receiving one code and is used for way station application. The send and receive unit was previously explained under J99252J.
- 1.34** *The J99252BC private service system way station send and receive two codes unit* provides for sending and receiving two codes and is used for way station application. It was previously explained under J99252J.
- 1.35** *The J99252BD private service system way station sending unit provides* for sending only and is used for way station application. It was previously explained under J99252J.
- 1.36** *The J99252BE private service system way station receiving one code unit* provides for receiving one code and is used for way station application. It was previously explained under J99252J.
- 1.37** *The J99252BF private service system way station receiving two codes unit* provides for receiving two codes and is used for way station application. It was previously explained under J99252J.
- 1.38** *The J99252BG private service system way station send and receive one to eighty-one codes unit* is a packaged unit of associated units which were previously explained under J99252B and J99252K. It provides for sending and receiving for one to 81 codes and is used for way station application. It may be arranged for loop cutoff or standard transmission.
- 1.39** *The J99252BH private service system way station send and receive one to nine codes unit* is a packaged unit of associated units which were explained previously under J99252J, J99252K, J99252L, and J99252M. When required, it may be arranged with a +130 volt power supply unit (J68651W). If -48 volts is not al-

ready available, the KS-15620, L12 rectifier shall be ordered separately and furnished as required. This J99252BH unit provides for sending and receiving one to nine codes.

- 1.40** *The J99252BJ private service system way station send and receive one to eighty-one codes unit* is a packaged unit of associated units which were explained previously under J99252B, J99252K, J99252L, and J99252M. When -48 and +130 volts are not already available, the power supplies KS-15620, L12 and J68651W shall be ordered separately and furnished to supply these voltages. This J99252BJ unit provides for sending and receiving one to 81 codes.

- 1.41** *The J99252BK private service system way station send only one to eighty-one codes unit* is a packaged unit of associated units which were explained previously under J99252J, J99252L, and J99252M. When -48 volts is not already available, the power supply unit KS-15620, L12 shall be ordered separately and furnished to supply this voltage. This J99252BK unit provides for sending only one to 81 codes.

- 1.42** *The J99252BL private service system way station receive only one to nine codes unit, SF unit at way station* is a packaged unit of associated units which were explained previously under J99252K and J99252M. If supply voltages are not available at the way station, the -48 and +130 volt supplies (KS-15620, L12 and J68651W, respectively) shall be ordered separately and may be furnished as part of the packaged unit, as required. The J99252BL unit provides for receiving only one to nine codes with the SF unit furnished at the way station, as required.

- 1.43** *The J99252BM private service system way station receive only one to eighty-one codes unit, SF unit at way station* is a packaged unit of associated units which were explained previously under J99252B, J99252K, and J99252M. When +130 volts is not already available, the J68651W unit may be furnished as part of the packaged unit to supply this voltage. When -48 volts is not already available, the power supply unit KS-15620, L12 shall be ordered separately and furnished, as required. This J99252BM unit provides for receiving only one to 81 codes with the SF unit furnished at the way station, as required.

1.44 *The J99252BN private service system way station send only unit SS1 keyer per No. 300 switching system sender application* is a packaged unit of associated units which were explained previously under J99252J and J99252L. The J99252BN unit is arranged for the No. 300 switching system for use at way station locations with the advantage of furnishing one keyer per sender. Fusing is not furnished as part of this unit and should be supplied as required.

1.45 *The J99252BP private service system send and receive one to eighty-one codes unit, SF unit at way station SS1 keyer per No. 300 switching system sender application* is a packaged unit of associated units which were explained previously under J99252B and J99252K. The J99252BP unit is arranged for the No. 300 switching system at way station locations so that the E1B single-frequency unit (J98613D) may be mounted on a miscellaneous basis. This provides a better equipment mounting arrangement because of the quantities involved. Fusing is not furnished as part of this unit and should be supplied as required.

1.46 *The J99252BR monitor and lamp display test unit* provides a visual indication of the code read by the associated decoder.

1.47 *The J99252BS private service way station send and receive one to nine codes arranged with automatic or manual lockout for privacy unit* is a packaged unit of associated units which were previously explained under J99252J,

J99252K, J99252L, and J99252N. This J99252BS unit provides for sending and receiving one to nine codes with automatic or manual lockout for privacy.

1.48 *The J99252BT private service way station send and receive one to eighty-one codes arranged with automatic or manual lockout for privacy unit* is a packaged unit of associated units which were previously explained under J99252B, J99252K, J99252L, and J99252N. This J99252BT unit provides for sending and receiving one to 81 codes with automatic or manual lockout for privacy.

1.49 *The J99252BU 3-digit interarea switching unit* provides an automatic switching circuit for dial controlled interconnecting of, and signaling between, two SS1 selective signaling systems having unlimited assignment of all codes in each system with or without common control.

1.50 *The J99252BV 2400- to 2600-cycle oscillator unit* is intended for use with the interarea switching circuit when one or both of the way stations associated with the interarea switching circuit is a receive only station.

1.51 *The J99252BW central office and PBX access unit* provides dialed or operator assisted connections from SS1 stations to stations on central office or PBX networks, and provides dialed or operator assisted connections from PBX stations to SS1 stations.

SUBDIVISIONS OF EQUIPMENT AND DETAILED INDEX

WEC Co J drawings should be ordered by referring to the prefix and base number and requesting the current dash (—) number.

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKT PER UNIT	2-INCH MTG PLATE SPACES PER UNIT
J99252B	AT&TCo Std	Sending and Code Relay Unit	J99252B-()	SD-98093-01	72 (max)	2
J99252D	AT&TCo Std	Order Wire Central Office Send and Receive One to Eighty-One Codes Unit	J99252D-()	SD-98093-01	81 (max)	7
J99252E	AT&TCo Std	Four-Wire Loop Terminating, DC Sending, and Loop Signaling Receiving Relay Unit	J99252E-()	SD-98093-01	2 (max)	2

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKT PER UNIT	2-INCH MTG PLATE SPACES PER UNIT
J99252F	AT&TCo Std	Pulse Repeating and Busy-Tone Unit	J99252F-()	SD-98093-01	1	1
J99252G	AT&TCo Std	Interarea Switching Unit	J99252G-()	SD-98093-01	1	1
J99252H	AT&TCo Std	Guard Transfer Busy Tone and Loop Cutoff Relay Unit	J99252H-()	SD-98093-01	1	1
J99252J	AT&TCo Std	Sending and Receiving One or Two Codes Relay Unit	J99252J-()	SD-98093-01	1	1
J99252K	AT&TCo Std	Decoder and Test Jack Unit	J99252K-()	SD-98093-01	9 (max)	2
J99252L	AT&TCo Std	Keyer Unit	J99252L-()	SD-98093-01	1	2
J99252M	AT&TCo Std	Fuse Indicator Unit	J99252M-()	SD-98093-01	7	1
J99252N	AT&TCo Std	Common Control Unit	J99252N-()	SD-98093-01	1	1
J99252P	AT&TCo Std	Station Control Unit	J99252P-()	SD-98093-01	5 (max)	1
J99252R		Station Control Unit Without System Lockout	J99252R-()	SD-98093-01	6 (max)	1
J99252AA	AT&TCo Std	Private Service System Central Office Send and Receive One or Two Codes Over One Loop Unit	J99252AA-()	SD-98093-01	2 (max)	7
J99252AC	AT&TCo Std	Private Service System Central Office Send and Receive More Than Two Codes Over One Loop Unit	J99252AC-()	SD-98093-01	81 (max)	7
J99252AD	AT&TCo Std	Private Service System Central Office Send and Receive More Than Two Codes Over One Loop With Loop Cutoff Unit	J99252AD-()	SD-98093-01	81 (max)	7
J99252AE	AT&TCo Std	Private Service System Central Office Receive One or Two Codes Over One Loop Unit	J99252AE-()	SD-98093-01	1	7
J99252AF	AT&TCo Std	Private Service System Central Office Send Over One Loop Unit	J99252AF-()	SD-98093-01	1	7

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKT PER UNIT	2-INCH MTG PLATE SPACES PER UNIT
J99252AG	AT&TCo Std	Private Service System Central Office Send and Re- ceive One or Two Codes per Loop Over Two Loops Unit	J99252AG-()	SD-98093-01	2 (max)	9
J99252AH	AT&TCo Std	Private Service System Central Office Send and Re- ceive One or Two Codes Over First Loop and More Than Two Codes Over the Second Loop Unit	J99252AH-()	SD-98093-01	81 (max)	9
J99252AJ	AT&TCo Std	Private Service System Central Office Send and Re- ceive More Than Two Codes per Loop Over Two Loops Unit	J99252AJ-()	SD-98093-01	81 (max)	9
J99252AK	AT&TCo Std	Private Service System Central Office Send and Re- ceive One or Two Codes per Loop Over Three Loops Unit	J99252AK-()	SD-98093-01	2 (max)	12
J99252AL	AT&TCo Std	Private Service System Central Office Send and Re- ceive One or Two Codes per First Loop and More Than Two Codes per Second and Third Loops Over Three Loops Unit	J99252AL-()	SD-98093-01	81 (max)	12
J99252AM	AT&TCo Std	Private Service System Central Office Send and Re- ceive More Than Two Codes per Loop Over Three Loops Unit	J99252AM-()	SD-98093-01	81 (max)	12
J99252AN	AT&TCo Std	Private Service System Central Office Send and Re- ceive More Than Two Codes per First Loop and One or Two Codes per Second and Third Loops Over Three Loops Unit	J99252AN-()	SD-98093-01	81 (max)	12
J99252AP	AT&TCo Std	Private Service System Central Office Interarea Switching Unit for Differ- ent Locations	J99252AP-()	SD-98093-01	1	7

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKT PER UNIT	2-INCH MTG PLATE SPACES PER UNIT
J99252AR	AT&TCo Std	Private Service System Central Office Interarea Switching for Same Location Unit	J99252AR-()	SD-98093-01	1	1
J99252BA	AT&TCo Std	Private Service System Way Station Send and Receive One to Nine Codes Unit	J99252BA-()	SD-98093-01	9 (max)	3
J99252BB	AT&TCo Std	Private Service System Way Station Send and Receive One Code Unit	J99252BB-()	SD-98093-01	1	1
J99252BC	AT&TCo Std	Private Service System Way Station Send and Receive Two Codes Unit	J99252BC-()	SD-98093-01	2 (max)	1
J99252BD	AT&TCo Std	Private Service System Way Station Sending Unit	J99252BD-()	SD-98093-01	1	1
J99252BE	AT&TCo Std	Private Service System Way Station Receiving One Code Unit	J99252BE-()	SD-98093-01	1	1
J99252BF	AT&TCo Std	Private Service System Way Station Receiving Two Codes Unit	J99252BF-()	SD-98093-01	2 (max)	1
J99252BG	AT&TCo Std	Private Service System Way Station Send and Receive One to Eighty-One Codes Unit	J99252BG-()	SD-98093-01	81 (max)	4
J99252BH	AT&TCo Std	Private Service System Way Station Send and Receive One to Nine Codes Unit	J99252BH-()	SD-98093-01	9 (max)	7
J99252BJ	AT&TCo Std	Private Service System Way Station Send and Receive One to Eighty-One Codes Unit	J99252BJ-()	SD-98093-01	81 (max)	7
J99252BK		Private Service System Way Station Send Only One to Eighty-One Codes Unit	J99252BK-()	SD-98093-01	81 (max)	4
J99252BL	AT&TCo Std	Private Service System Way Station Receive Only One to Nine Codes Unit, SF Unit at Way Station	J99252BL-()	SD-98093-01	9 (max)	7

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKT PER UNIT	2-INCH MTG PLATE SPACES PER UNIT
J99252BM	AT&TCo Std	Private Service System Way Station Receive Only One to Eighty-One Codes Unit, SF Unit at Way Station	J99252BM-()	SD-98093-01	81 (max)	7
J99252BN	AT&TCo Std	Private Service System Way Station Send Only Unit SS1 Keyer per No. 300 Switching System Sender Application	J99252BN-()	SD-98093-01	81 (max)	3
J99252BP	AT&TCo Std	Private Service System Send and Receive One to Eighty-One Codes Unit, SF Unit at Way Station SS1 Keyer per No. 300 Switching System Sender Application	J99252BP-()	SD-98093-01	81 (max)	4
J99252BR	AT&TCo Std	Monitor and Lamp Display Test Unit	J99252BR-()	SD-98093-01	1	2
J99252BS	AT&TCo Std	Private Service System Way Station Send and Receive One to Nine Codes Arranged With Automatic or Manual Lockout for Privacy Unit	J99252BS-()	SD-98093-01	9 (max)	8
J99252BT	AT&TCo Std	Private Service System Way Station Send and Receive One to Eighty-One Codes Arranged with Automatic or Manual Lockout for Privacy Unit	J99252BT-()	SD-98093-01	81 (max)	8
J99252BU	AT&TCo Std	3-Digit Interarea Switching Unit	J99252BU-()	SD-98093-01	1	1
J99252BV	AT&TCo Std	2400- to 2600-Cycle Oscillator Unit	J99252BV-()	SD-98093-01	1	1
J99252BW	AT&TCo Std	Central Office and PBX Access Unit	J99252BW-()	SD-98093-01	1	2

2. SUPPLEMENTARY INFORMATION

- 800-600-000 — List of General Equipment Requirement Sections
- 801-000-000 — Equipment Design and General Equipment Requirements and Engineering Information — Common Systems
- J64730 — 804-911-155 — No. 2B Signaling Test Set
- J98613 — 801-642-150 — E-Type AC Trunk Signaling System

3. DRAWINGS

For additional drawings forming a part of this specification, see listings under Subdivisions of Equipment and Detailed Index.

J98613DE-() — E4B Signaling Unit

4. EQUIPMENT***J99252B — AT&TCo Std — Sending and Code Relay Unit***

Equipment — J99252B-()

- List 1** — Assembly, common equipment, and wiring for one sending and code relay circuit per SD-98093-01, Fig. 2 and 4. (See Note A.)
- List 2** — Equipment and wiring required in addition to list 1 or 3 for an additional code relay circuit per SD-98093-01, Fig. 2. (See Note A.)
- List 3** — Assembly, common equipment, and wiring for one code relay circuit per SD-98093-01, Fig. 2. (See Note A.)

Note

- A. Each Fig. 2 per SD-98093-01 furnishes decoding for nine codes in any tens digit with a maximum of eight Fig. 2 for 72 codes. Arrangement for furnishing decoding for the first nine codes is furnished on the decoder unit (J99252K). The decoder, and sending code relay unit (J99252B) combined, furnishes decoding for a maximum of 81 codes.

J99252D — AT&TCo Std — Order Wire Central Office Send and Receive One to Eighty-One Codes Unit

Equipment — J99252D-()

- List 2** — Equipment and wiring required in addition to list 3 to provide an additional code relay circuit per SD-98093-01, Fig. 2, and J99252B, List 2. (See Table B for equipping component codes.)
- List 3** — Assembly, interconnecting wiring, and equipment for one packaged unit for order wire central office send and receive one to 81 codes per J99252K, List 1; J99252B, List 1; J99252L, List 1; and SD-98093-01, Fig. 1, 2, 3, 4-J, 5, and 6. (See Notes A and B, and Table B for equipping component codes.)
- List 4** — Equipment required in addition to list 1 or 3 for units used on hardened sites.

	WIRE	EQUIP	NOTES
Keyer Unit J99252L, L2	0	1	
Decoder and Test Jack Ckt, J99252K, L2	0	1	

Notes

- A. The E4B single-frequency signaling unit (J98613DE) is not included in this packaged unit. If it is not already available, it must be ordered separately and plugged into the packaged unit.
- B. The battery supply filter unit (J64730C) employed with the 2B signaling test set shall be ordered if a filter unit is not already accessible within two bays distance of the bay housing the SS1 equipment. The filter unit may be mounted in the space below the keyer unit (J99252L). Only one filter unit is required per five bays. This unit should be mounted in the center bay, making the two adjacent bays on either side accessible for testing.

J99252E — AT&TCo Std — Four-Wire Loop Terminating, DC Sending, and Loop Signaling Receiving Relay Unit

Equipment — J99252E-()

- List 1** — Assembly, common equipment, and wiring for one 4-wire loop terminating unit per SD-98093-01, Fig. 14.

List 2 — Equipment and wiring in addition to list 1 for one dc sending relay circuit per SD-98093-01, Fig. 11.

List 3 — Equipment and wiring in addition to list 1 for one loop signaling receiving circuit per SD-98093-01, Fig. 12.

J99252F — AT&TCo Std — Pulse Repeating and Busy-Tone Unit

Equipment — J99252F-()

List 1 — Assembly, equipment, and wiring for one pulse repeating and busy-tone unit per SD-98093-01, Fig. 13. (See Note A.)

Note

A. A, B, K, Q, R, V, W, ZA, ZB, and ZE wiring options shall be furnished as required.

J99252G — AT&TCo Std — Interarea Switching Unit

Equipment — J99252G-()

List 1 — Assembly, equipment, and wiring for one interarea switching unit per SD-98093-01, Fig. 15. (See Note A.)

Note

A. The V3 amplifier (J68647A) shall be ordered separately and furnished when areas to be connected are in different central offices.

J99252H — AT&TCo Std — Guard Transfer Busy Tone and Loop Cutoff Relay Unit

Equipment — J99252H-()

List 1 — Assembly and common equipment required and arranged for one guard transfer busy tone and loop cutoff relay unit.

List 2 — Equipment and wiring required in addition to list 1 for one guard transfer busy tone and test jack circuit per SD-98093-01, Fig. 5 and 8.

List 3 — Equipment and wiring required in addition to list 1 for one loop cutoff relay circuit per SD-98093-01, Fig. 16. (See Note A.)

List 4 — Equipment and wiring required in addition to list 3 for a second loop cutoff relay circuit per SD-98093-01, Fig. 16. (See Note A.)

List 5 — Equipment and wiring required in addition to list 4 for a third loop cutoff relay circuit per SD-98093-01, Fig. 16. (See Note A.)

Note

A. H and J wiring options shall be furnished as required.

J99252J — AT&TCo Std — Sending and Receiving One or Two Codes Relay Unit

Equipment — J99252J-()

List 1 — Assembly and common equipment required and arranged for one sending receiving one or two codes relay unit.

List 2 — Equipment and wiring required in addition to list 1 for one sending relay circuit per SD-98093-01, Fig. 4. (See Note A.)

List 3 — Equipment and wiring required in addition to list 1 for one receiving one code relay circuit per SD-98093-01, Fig. 9.

List 4 — Equipment and wiring required in addition to list 1 for one receiving two codes relay circuit per SD-98093-01, Fig. 10.

Note

A. Z wiring option shall be furnished as required.

J99252K — AT&TCo Std — Decoder and Test Jack Unit

Equipment — J99252K-()

List 1 — Assembly, equipment, and wiring for one decoder and test jack unit per SD-98093-01, Fig. 1, 5, 18, 19, and 20, ZZQ apparatus. (See Notes A, B, and C.)

List 2 — Equipment required in addition to list 1 for units used on hardened sites per SD-98093-01; ZZR apparatus, omit ZZQ apparatus.

List 3 — Interconnecting leads required for use with the 3-digit interarea switching circuit at same way station per SD-98093-01, Fig. 1, YR wiring and apparatus. Omit YQ wiring.

Notes

- A. The decoder and test jack unit furnishes decoding for the first nine codes in any tens digit. The additional 72 codes are furnished by the sending and code relay unit (J99252B).
- B. Job information shall be furnished to the installer for altering optional straps to provide desired decoding requirements.
- C. The V3 amplifier (J68647A) and the 89-type resistors for the 1C pad shall be ordered separately and furnished as required.

J99252L — AT&TCo Std — Keyer Unit

Equipment — J99252L-()

- List 1** — Assembly, equipment, and wiring for one keyer unit per SD-98093-01, Fig. 3; YJ wiring. (See Note A.)
- List 2** — Equipment required in addition to list 1 for units used on hardened sites per SD-98093-01; ZZR apparatus, omit ZZQ apparatus.
- List 3** — Equipment and wiring required in addition to list 1 on all units where privacy is required. (See Note B.)
- List 4** — Interconnecting leads required for use with the 3-digit interarea switching circuit or with modified override per SD-98093-01, Fig. 32 or 33, YN wiring.

Notes

- A. G, H, M, S, T, ZG, and ZH wiring options shall be furnished as required.
- B. When applied for use at way station equipped for privacy or on premises dialing, furnish YK wiring, omit YJ wiring.

J99252M — AT&TCo Std — Fuse Indicator Unit

Equipment — J99252M-()

List 2 — Assembly, equipment, and wiring required for one fuse plate per SD-98093-01, Fig. 23 and 24. (See Note A.)

List 3 — Equipment required for field modification of list 1 to furnish fuse block per SD-98093-01, Fig. 24. (See Note B.)

List 4 — Equipment required in addition to list 2 to provide fusing for the J99252BR monitoring unit per SD-98093-01, Fig. 24, YL wiring and apparatus.

List 5 — Equipment required for field modification of list 1 or list 2 to provide fusing for the J99252BR monitoring unit per SD-98093-01, Fig. 24, YL wiring and apparatus.

List 6 — Equipment and wiring required in addition to list 2 to provide fusing for interarea switch per SD-98093-01, Fig. 24, YN wiring and apparatus.

List 7 — Equipment required for field modification to provide fusing for interarea switch per SD-98093-01, Fig. 24.

Notes

- A. The fuse indicator unit shall be furnished when standard fusing arrangements are not available.
- B. Furnish YD option for additional station subsets, or ZQ option for privacy application as required.

J99252N — AT&TCo Std — Common Control Unit

Equipment — J99252N-()

List 3 — A&M Only — Equipment and wiring required in addition to list 1 or 4 for local override per SD-98093-01, Fig. 33, YS or YP wiring; omit YO wiring. (See Note A.)

List 4 — A&M Only — Equipment and wiring required in addition to list 4 for way station lockout when dial access to central office or PBX is provided in the system, per SD-98093-01, Fig. 35. (See Note B.)

List 5 — Assembly, common equipment, and surface wiring for one common control circuit which includes an arrangement for privacy and termination for one station

subset per SD-98093-01, Fig. 39, ZY wiring.

- List 6** — Equipment and wiring required in addition to list 4 to provide one manual lock-out circuit per SD-98093-01, Fig. 28, ZZ wiring of Fig. 39; omit ZY wiring.

Notes

- A. Furnish YS wiring when only one subset is provided at the way station, and YP wiring when more than one subset is provided.
- B. For dial access to central office or PBX, one Fig. 35 is required at each way station, of the system. One Fig. 35 will serve two access circuits at the same location and any number of access circuits located at other way stations.

J99252P — AT&TCo Std — Station Control Unit

Equipment — J99252P-()

- List 3** — Equipment and wiring required in addition to list 1 or 4 to provide isolating diode in all cases per SD-98093-01, Fig. 27 (after Issue 12D); YN wiring and apparatus.

- List 4** — Assembly, common equipment, and surface wiring for one station control circuit which includes an arrangement for preference lockout of the number one and two dial leads and termination for one additional subset per SD-98093-01, Fig. 40 and 27.

- List 5** — Equipment and wiring required in addition to list 4 to provide for an additional subset per SD-98093-01, Fig. 40.

J99252R — AT&TCo Std — Station Control Unit Without System Lockout

Equipment — J99252R-()

- List 1** — Assembly, common equipment and surface wiring for one station control circuit without system lockout which provides an arrangement for preference lockout of the number one and two dial leads, termination for two subsets, but is not arranged for privacy per SD-98093-01, two Fig. 29 and one Fig. 27.

- List 2** — Equipment and wiring required in addition to list 1 to provide for an additional subset per SD-98093-01, Fig. 29.

J99252AA — AT&TCo Std — Private Service System Central Office Send and Receive One or Two Codes Over One Loop Unit

Equipment — J99252AA-()

- List 2** — Assembly, interconnecting wiring, and equipment for one packaged unit for private service system central office send and receive one or two codes over one loop. (See 5.08.)

	WIRE	EQUIP	NOTES
Decoder & Test Jack Unit, J99252K, L1	0	1	
Keyer Unit, J99252L, L1	0	1	
4-Wire Loop Term. & DC Sdg Unit, J99252E, L1, L2, & L3	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 1, 3, 5, 11, 12 & 14	1	0	

J99252AC — AT&TCo Std — Private Service System Central Office Send and Receive More Than Two Codes Over One Loop Unit

Equipment — J99252AC-()

- List 2** — Assembly, interconnecting wiring, and equipment for one packaged unit for private service system central office send and receive more than two codes over one loop. (See 5.08.)

	WIRE	EQUIP	NOTES
Keyer Unit, J99252L, L1	0	1	
4-Wire Loop Term. & DC Sdg Unit, J99252E, L1	0	1	
Grd Transfer BT & Loop Cutoff Unit, J99252H, L1 & L2	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 3, 5, 8 & 14	1	0	

J99252AD — AT&TCo Std — Private Service System Central Office Send and Receive More Than Two Codes Over One Loop With Loop Cutoff Unit

Equipment — J99252AD-()

List 2 — Assembly, interconnecting wiring, and equipment for one packaged unit for private service system central office send and receive more than two codes over one loop and arranged for loop cutoff. (See 5.08.)

	WIRE	EQUIP	NOTES
Keyer Unit, J99252L, L1	0	1	
4-Wire Loop Term. & DC Sdg Unit, J99252E, L1	0	1	
Grd Transfer BT & Loop Cutoff Unit, J99252H, L1, L2 & L3	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 3, 5, 8, 14 & 16	1	0	

J99252AE — AT&TCo Std — Private Service System Central Office Receive One or Two Codes Over One Loop Unit

Equipment — J99252AE-()

List 2 — Assembly, interconnecting wiring, and equipment for one packaged unit for private service system central office receive over one loop. (See 5.08.)

	WIRE	EQUIP	NOTES
Decoder & Test Jack Unit, J99252K, L1	0	1	
4-Wire Loop Term. & DC Sdg Unit, J99252E, L1 & L2	0	1	
SS1 Sel Sys Cont Ckt, SD-98093-01, Fig. 1, 5, 11 & 14	1	0	

J99252AF — AT&TCo Std — Private Service System Central Office Send Over One Loop Unit

Equipment — J99252AF-()

List 2 — Assembly, interconnecting wiring, and equipment for one packaged unit for private service system central office send over one loop. (See 5.05 and 5.08.)

	WIRE	EQUIP	NOTES
Keyer Unit, J99252L, L1	0	1	
4-Wire Loop Term. & DC Sdg Unit, J99252E, L1 & L3	0	1	

WIRE EQUIP NOTES

SS1 Sel Sig Sys Cont Ckt,
SD-98093-01, Fig. 3, 12 & 14 1 0

J99252AG — AT&TCo Std — Private Service System Central Office Send and Receive One or Two Codes per Loop Over Two Loops Unit

Equipment — J99252AG-()

List 2 — Assembly, interconnecting wiring, and equipment for one packaged unit for private service system central office send and receive one or two codes per loop and arranged for two loops. (See 5.05 and 5.08.)

	WIRE	EQUIP	NOTES
Decoder & Test Jack Unit, J99252K, L1	0	1	
Keyer Unit, J99252L, L1	0	1	
4-Wire Loop Term. & DC Sdg Unit, J99252E, L1, L2, & L3	0	2	
Pls Repeating & BT Unit, J99252F, L1	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01: Fig. 1, 3, 5 & 13	1	0	
Fig. 11, 12 & 14	2	0	

J99252AH — AT&TCo Std — Private Service System Central Office Send and Receive One or Two Codes Over First Loop and More Than Two Codes Over the Second Loop Unit

Equipment — J99252AH-()

List 2 — Assembly, interconnecting wiring, and equipment for one packaged unit for private service system central office send and receive one or two codes over the first loop and more than two codes over the second loop. (See 5.06 and 5.08.)

	WIRE	EQUIP	NOTES
Decoder & Test Jack Unit, J99252K, L1	0	1	
Keyer Unit, J99252L, L1	0	1	
4-Wire Loop Term. & DC Sdg Unit, J99252E, L1, L2 & L3	0	1	

	WIRE	EQUIP	NOTES
4-Wire Loop Term. & DC Sdg Unit, J99252E, L1	0	1	
Pls Repeating & BT Unit, J99252F, L1	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01:			
Fig. 1, 3, 5, 11, 12 & 13	1	0	
Fig. 14	2	0	

J99252AJ — AT&TCo Std — Private Service System Central Office Send and Receive More Than Two Codes per Loop Over Two Loops Unit

Equipment — J99252AJ-()

List 2 — Assembly, interconnecting wiring, and equipment for one packaged unit for private service system central office send and receive more than two codes per loop and arranged for two loops. (See 5.05 and 5.08.)

	WIRE	EQUIP	NOTES
Decoder & Test Jack Unit, J99252K, L1	0	1	
Keyer Unit, J99252L, L1	0	1	
4-Wire Loop Term. & DC Sdg Unit, J99252E, L1	0	2	
Pls Repeating & BT Unit, J99252F, L1	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01:			
Fig. 1, 3, 5 & 13	1	0	
Fig. 14	2	0	

J99252AK — AT&TCo Std — Private Service System Central Office Send and Receive One or Two Codes per Loop Over Three Loops Unit

Equipment — J99252AK-()

List 2 — Assembly, interconnecting wiring, and equipment for one packaged unit for private service system central office send and receive one or two codes per loop and arranged for three loops. (See 5.05 and 5.08.)

	WIRE	EQUIP	NOTES
Decoder & Test Jack Unit, J99252K, L1	0	1	

	WIRE	EQUIP	NOTES
Keyer Unit, J99252L, L1	0	1	
4-Wire Loop Term. & DC Sdg Unit, J99252E, L1, L2 & L3	0	3	
Pls Repeating & BT Unit, J99252F, L1	0	2	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01:			
Fig. 1, 3 & 5	1	0	
Fig. 13	2	0	
Fig. 11, 12 & 14	3	0	

J99252AL — AT&TCo Std — Private Service System Central Office Send and Receive One or Two Codes per First Loop and More Than Two Codes per Second and Third Loops Over Three Loops Unit

Equipment — J99252AL-()

List 2 — Assembly, interconnecting wiring, and equipment for one packaged unit for private service system central office send and receive one or two codes for the first loop and more than two codes for the second and third loops. (See 5.05 and 5.08.)

	WIRE	EQUIP	NOTES
Decoder & Test Jack Unit, J99252K, L1	0	1	
Keyer Unit, J99252L, L1	0	1	
4-Wire Loop Term. & DC Sdg Unit, J99252E, L1, L2 & L3	0	1	
4-Wire Loop Term. & DC Sdg Unit, J99252E, L1	0	2	
Pls Repeating & BT Unit, J99252F, L1	0	2	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01:			
Fig. 1, 3, 5, 11 & 12	1	0	
Fig. 13	2	0	
Fig. 14	3	0	

J99252AM — AT&TCo Std — Private Service System Central Office Send and Receive More Than Two Codes per Loop Over Three Loops Unit

Equipment — J99252AM-()

List 2 — Assembly, interconnecting wiring, and equipment for one packaged unit for private service system central office send and receive more than two codes per loop and arranged for three loops. (See 5.05 and 5.08.)

	WIRE	EQUIP	NOTES
Decoder & Test Jack Unit, J99252K, L1	0	1	
Keyer Unit, J99252L, L1	0	1	
4-Wire Loop Term. & DC Sdg Unit, J99252E, L1	0	3	
Pls Repeating & BT Unit, J99252F, L1	0	2	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01:			
Fig. 1, 3 & 5	1	0	
Fig. 13	2	0	
Fig. 14	3	0	

J99252AN — AT&TCo Std — Private Service System Central Office Send and Receive More Than Two Codes per First Loop and One or Two Codes per Second and Third Loops Over Three Loops Unit

Equipment — J99252AN-()

List 2 — Assembly, interconnecting wiring, and equipment for one packaged unit for private service system central office send and receive more than two codes per first loop and one or two codes per second and third loops arranged for three loops. (See 5.05 and 5.08.)

	WIRE	EQUIP	NOTES
Decoder & Test Jack Unit, J99252K, L1	0	1	
Keyer Unit, J99252L, L1	0	1	
4-Wire Loop Term. & DC Sdg Unit, J99252E, L1, L2, & L3	0	2	
4-Wire Loop Term. & DC Sdg Unit, J99252E, L1	0	1	
Pls Repeating & BT Unit, J99252F, L1	0	2	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01:			
Fig. 1, 3 & 5	0	1	

	WIRE	EQUIP	NOTES
Fig. 11, 12, & 13	2	0	
Fig. 14	3	0	

J99252AP — AT&TCo Std — Private Service System Central Office Interarea Switching Unit for Different Locations

Equipment — J99252AP-()

List 2 — Assembly, interconnecting wiring, and equipment for one packaged unit for private service system central office arrangement for one interarea switching unit when areas to be connected are located in different central offices. (See Note A and 5.08.)

	WIRE	EQUIP	NOTES
Decoder & Test Jack Unit, J99252K, L1	0	1	
Interarea Switching Unit, J99252G, L1	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 1, 5 & 15	1	0	

Note

A. When interarea switching is arranged to connect areas that are located in different central offices, a V3 amplifier (J68647A) must be ordered separately. This amplifier is plugged into the socket made available on the interarea switching unit (J99252G).

J99252AR — AT&TCo Std — Private Service System Central Office Interarea Switching for Same Location Unit

Equipment — J99252AR-()

List 1 — Assembly, interconnecting wiring, and equipment for one packaged unit for private service system central office arrangement for one interarea switching unit for connecting areas which are located in the same central office. (See Notes A and B.)

	WIRE	EQUIP	NOTES
Interarea Switching Unit, J99252G, L1	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 15	1	0	

Notes

- A. When interarea switching is arranged to connect areas that are located in the same central office, the V3 amplifier (J68647A) should not be furnished.
- B. This unit is equipped with an extension plate (P-41K139) which adapts it for 23-inch mounting.

J99252BA — AT&TCo Std — Private Service System Way Station Send and Receive One to Nine Codes Unit

Equipment — J99252BA-()

List 2 — Assembly, interconnecting wiring, and equipment for one packaged unit for way station send and receive one to nine codes arranged for loop cutoff or standard transmission. (See 5.06 and 5.07.)

	WIRE	EQUIP	NOTES
Decoder & Test Jack Unit, J99252K, L1	0	1	
Sdg & Rcvg One or Two Code Rel Unit, J99252J, L1 & L2	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 1, 4 & 5, A or C	1	0	A

Note

- A. When loop cutoff arrangement is required, furnish Fig. C per SD-98093-01. When standard transmission is required, furnish Fig. A per SD-98093-01.

J99252BB — AT&TCo Std — Private Service System Way Station Send and Receive One Code Unit

Equipment — J99252BB-()

List 1 — Assembly, connecting wiring, and equipment for one private service system way station send and receive one code unit. (See Note A and 5.06.)

	WIRE	EQUIP	NOTES
Sdg, Rcvg One or Two Codes Rel Unit, J99252J, L1, L2 & L3	0	1	

WIRE EQUIP NOTES

SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 4, 9 & B	1	0	
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Note

- A. This unit is equipped with an extension plate (P-41K139) which adapts it for 23-inch mounting.

J99252BC — AT&TCo Std — Private Service System Way Station Send and Receive Two Codes Unit

Equipment — J99252BC-()

List 1 — Assembly, connecting wiring, and equipment for one private service system way station send and receive two codes unit. (See Note A and 5.06.)

	WIRE	EQUIP	NOTES
Sdg, Rcvg One or Two Codes Rel Unit, J99252J, L1, L2 & L4	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 4, 10 & B	1	0	

Note

- A. This unit is equipped with an extension plate (P-41K139) which adapts it for 23-inch mounting.

J99252BD — AT&TCo Std — Private Service System Way Station Sending Unit

Equipment — J99252BD-()

List 1 — Assembly, connecting wiring, and equipment for one private service system way station unit arranged for sending only. (See Note A and 5.06.)

	WIRE	EQUIP	NOTES
Sdg, Rcvg One or Two Codes Rel Unit, J99252J, L1 & L2	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 4 & B	1	0	

Note

A. This unit is equipped with an extension plate (P-41K139) which adapts it for 23-inch mounting.

J99252BE — AT&TCo Std — Private Service System Way Station Receiving One Code Unit

Equipment — J99252BE-()

List 1 — Assembly, connecting wiring, and equipment for one private service system way station unit for receiving only one code. (See Note A and 5.06.)

	WIRE	EQUIP	NOTES
Sdg, Rcvg One Code Unit, J99252J, L1 & L3	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 9 & D	1	0	

Note

A. This unit is equipped with an extension plate (P-41K139) which adapts it for 23-inch mounting.

J99252BF — AT&TCo Std — Private Service System Way Station Receiving Two Codes Unit

Equipment — J99252BF-()

List 1 — Assembly, connecting wiring, and equipment for one private service system way station unit for receiving two codes. (See Note A and 5.06.)

	WIRE	EQUIP	NOTES
Sdg, Rcvg One or Two Codes Rel Unit, J99252J, L1 & L4	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 10 & D	1	0	

Note

A. This unit is equipped with an extension plate (P-41K139) which adapts it for 23-inch mounting.

J99252BG — AT&TCo Std — Private Service System Way Station Send and Receive One to Eighty-One Codes Unit

Equipment — J99252BG-()

List 2 — Equipment required in addition to list 1 or 3 to provide additional code relay circuits as required per SD-98093-01, Fig. 2, and J99252B, List 2.

List 3 — Assembly, interconnecting wiring, and equipment for one packaged unit for private service system way station sending and receiving one to 81 codes arranged for loop cutoff standard transmission per SD-98093-01, Fig. 1, 2, 4, 5A, or C; J99252K, List 1; and J99252B, List 1. See Table C for equipping component codes. (See Note A and 5.06 and 5.07.)

Note

A. When loop cutoff arrangement is required, furnish Fig. C per SD-98093-01. When standard transmission is required, furnish Fig. A per SD-98093-01.

J99252BH — AT&TCo Std — Private Service System Way Station Send and Receive One to Nine Codes Unit

Equipment — J99252BH-()

List 1 — Assembly, interconnecting wiring, and equipment for one packaged unit for private service system way station send and receive one to nine 2-digit codes. (See Notes B, C, and D and 5.08.)

	WIRE	EQUIP	NOTES
Sdg, Rcvg One or Two Codes Rel Unit, J99252J, L1 & L2	0	1	
Decoder & Test Jack Unit, J99252K, L1	0	1	
Keyer Unit J99252L, L1	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 1, 3, 4, 5, 6, 18, 19, 20, H & K	1	0	

List 3 — Equipment and wiring required in addition to list 1 to provide fusing for +130 and -48 volts.

	WIRE	EQUIP	NOTES
Fuse Indicator Unit, J99252M, L2	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 23 & 24	1	0	

List 4 — Equipment and wiring required in addition to list 1 to provide connection to 3-digit interarea switching circuit.

	WIRE	EQUIP	NOTES
Decoder and Test Jack Unit, J99252K, L2	0	1	

Notes

- A. The power supply unit (J68651W) consists of a 1-3/4 by 19-inch mounting plate which shall be mounted with the top mounting screws only.
- B. The V3 amplifier (J68647A) and the 89-type resistors for the 1C pad shall be ordered separately and furnished as required.
- C. The -48 volt power supply (KS-15620, L12) shall be ordered separately and furnished when -48 volts are not already available. Two adapter plates shall be furnished to adapt this unit for 23-inch mounting. The KS-15620, L12 rectifier has a capacity of 2 amperes and will supply power for one SS1 packaged unit (J99252BH). If more than one SS1 packaged unit is located at the same station, a rectifier shall be furnished as required to supply this larger load condition.
- D. Furnish equipment per ZQ option for privacy application as required.
- E. Order one 130-volt power supply unit J68651W for the V3 amplifier when +130 volts is not available at the way station.

J99252BJ — AT&T Co Std — Private Service System Way Station Send and Receive One to Eighty-One Codes Unit

Equipment — J99252BJ-()

List 1 — Assembly, interconnecting wiring, and equipment for one packaged unit for

privacy service system way station send and receive one to 81 2-digit codes. (See Notes A, B, and C and 5.07 and 5.08.)

	WIRE	EQUIP	NOTES
Decoder & Test Jack Unit, J99252K, L1	0	1	
Sdg Code Rel Unit, J99252B, L1	0	1	
Keyer Unit, J99252L, L1	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 1, 2, 3, 4, 5, 6, 18, 19, H & K	1	0	

List 2 — Equipment and wiring required in addition to List 1 to provide an additional code relay circuit.

	WIRE	EQUIP	NOTES
Sdg Code Rel Unit, J99252B, L2	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 2	1	0	

List 3 — Equipment and wiring required in addition to list 1 to provide fusing for +130 and -48 volts.

	WIRE	EQUIP	NOTES
Fuse Indicator Unit, J99252M, L2	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 23 & 24	1	0	

List 4 — Equipment and wiring required in addition to list 1 to provide connection to 3-digit interarea switching circuit.

	WIRE	EQUIP	NOTES
Decoder and Test Jack Unit, J99252K, L2	0	1	

Notes

- A. The V3 amplifier (J68647A) and the 89-type resistors for the 1C pad shall be ordered separately and furnished as required.
- B. The -48 volt power supply (KS-15620, L12) shall be ordered separately and furnished when -48 volts is not already available. Two adapter plates shall be furnished to adapt

this unit for 23-inch mounting. The KS-15620, L12 rectifier has a capacity of 2 amperes and will supply power for one SS1 packaged unit (J99252BJ). If more than one SS1 packaged unit is located at the same station, a rectifier shall be furnished as required to supply this larger load condition.

C. Furnish equipment per ZQ option for privacy application as required.

J99252BK — AT&TCo Std — Private Service System Way Station Send Only One to Eighty-One Codes Unit

Equipment — J99252BK-()

List 1 — Assembly, wiring, and equipment for one packaged unit for private service system way station send only, one to 81 codes. (See 5.06.)

	WIRE	EQUIP	NOTES
Keyer Unit, J99252L, L1 Sdg, Rcvg One or Two Codes	0	1	
Rel Unit, J99252J, L1 & L2	0	1	
Fuse Indicator Unit, J99252M, L2	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 3, 4, 24 & K	1	0	

J99252BL — AT&TCo Std — Private Service System Way Station Receive Only One to Nine Codes Unit, SF Unit at Way Station

Equipment — J99252BL-()

List 1 — Assembly, interconnecting wiring, and equipment for one packaged unit for private service system way station receiving only one to nine codes. (See Note B and 5.08.)

	WIRE	EQUIP	NOTES
Decoder & Test Jack Unit, J99252K, L1	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 1, 5, 6, 18, 19, 20 & H	1	0	

List 3 — Equipment and wiring required in addition to list 1 to provide -48 volts for

the packaged unit when it is not already available per unit KS-15620, L12. (See Note C.)

List 4 — Equipment and wiring required in addition to list 1 to provide fusing for +130 and -48 volts.

	WIRE	EQUIP	NOTES
Fuse Indicator Unit, J99252M, L2	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 24 & 39	1	0	

Notes

A. The +130 volt power supply unit (J68651W) consists of a 1-3/4 by 19-inch mounting plate which shall be mounted with the top mounting screws only.

B. The V3 amplifier (J68647A) and the 89-type resistors for the 1C pad shall be ordered separately and furnished as required.

C. The KS-15620, L12 rectifier has a capacity of 2 amperes.

D. Order one 130-volt power supply unit J68651W for the V3 amplifier when +130 volts is not available at the way station.

J99252BM — AT&TCo Std — Private Service System Way Station Receive Only One to Eighty-One Codes Unit, SF Unit at Way Station.

Equipment — J99252BM-()

List 1 — Assembly, interconnecting wiring, and equipment for one packaged unit for private service system way station receiving only one to eighty-one codes. (See Note B and 5.06 and 5.08.)

	WIRE	EQUIP	NOTES
Decoder and Test Jack Unit, J99252K, L1	0	1	
Sdg Code Relay Unit, J99252B, L3	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 1, 2, 5, 6, 18, 19, 20 & H	1	0	

List 2 — Equipment and wiring required in addition to list 1 to provide an additional code relay circuit.

	WIRE	EQUIP	NOTES
Sdg Code Relay Unit, J99252B, L2	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 2	1	0	

List 3 — Equipment and wiring required in addition to list 1 to provide fusing for +130 and -48 volts.

	WIRE	EQUIP	NOTES
Fuse Indicator Unit, J99252M, L2	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 23 & 24	1	0	

Notes

- A. The +130 volt power supply unit (J68651W) consists of a 1-3/4 by 19-inch mounting plate which shall be mounted with the top mounting screws only.
- B. The V3 amplifier (J68647A) and the 89-type resistors for the 1C pad shall be ordered separately and furnished.
- C. Order one 130-volt power supply unit J68651W for the V3 amplifier when +130 volts is not available at the way station.

J99252BN — AT&TCo Std — Private Service System Way Station Send Only Unit SS1 Keyer per No. 300 Switching System Sender Application

List 1 — Assembly, connecting wiring, and equipment for one private service system way station send only unit for use with No. 300 switching system sender application. (See Note A.)

	WIRE	EQUIP	NOTES
Keyer Unit, J99252L, L1		1	
Sdg, Rcvg One or Two Codes Rel Unit, J99252J, L1 & L2		1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 3, 4 & L	1	0	

Note

A. Furnish ZN wiring option as required.

J99252BP — AT&TCo Std — Private Service System Send and Receive One to Eighty-One Codes Unit, SF Unit at Way Station SS1 Keyer per No. 300 Switching System Sender Application

List 1 — Assembly, connecting wiring, and equipment for one private service system way station send and receive unit for use with No. 300 switching system sender application. (See Notes A and B.)

	WIRE	EQUIP	NOTES
Decoder & Test Jack Unit J99252K, L1	0	1	
Sdg Code Rel Unit, J99252B, L3	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 1, 2, 5, 18, 19, 20 & H	1	0	

List 2 — Equipment required in addition to list 1 for additional code relays.

	WIRE	EQUIP	NOTES
Sdg Code Rel Unit, J99252B, L2	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 2	1	0	

Notes

- A. Furnish ZK, ZL, ZM, ZR, and ZW wiring options as required.
- B. The E1B single-frequency unit (J98613D) is not included as part of this unit. It must be ordered separately and may be mounted on a miscellaneous basis.

J99252BR — AT&TCo Std — Monitor and Lamp Display Test Unit

Equipment — J99252BR-()

List 1 — Assembly, wiring, and equipment for one monitor and lamp display test unit per SD-98093-01, Fig. 30, 31 and Fig. 24, YL wiring.

J99252BS — AT&T Co Std — Private Service System Way Station Send and Receive One to Nine Codes Arranged With Automatic or Manual Lockout for Privacy Unit

Equipment — J99252BS-()

List 1 — Assembly, interconnecting wiring, and equipment for one packaged unit for private service system send and receive one to nine 2-digit codes with arrangement for automatic privacy. (See Notes B and C.)

	WIRE	EQUIP	NOTES
Sdg Rcvg One or Two Codes Rel Unit, J99252J, L1 & L2	0	1	
Decoder & Test Jack Unit, J99252K, L1	0	1	
Keyer Unit, J99252L, L1	0	1	
Common Control Circuit, J99252N, L1	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 1, 3, 4, 5, 6, 18, 19, 20, 39, H & K	1	0	

List 3 — Equipment and wiring required in addition to list 1 to provide fusing for +130 and -48 volts.

	WIRE	EQUIP	NOTES
Fuse Indicator Unit, J99252M, L2	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 23 & 24	1	0	

List 4 — Equipment and wiring required in addition to list 1 to provide for manual lockout for privacy.

	WIRE	EQUIP	NOTES
Manual Lockout Circuit, J99252N, L2	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 28	1	0	

List 5 — Equipment and wiring required in addition to list 1 to provide connection to 3-digit interarea switching circuit.

	WIRE	EQUIP	NOTES
Decoder and Test Jack Unit, J99252K, L3	0	1	

List 6 — Equipment and wiring required in addition to list 1 to provide for local override of privacy.

	WIRE	EQUIP	NOTES
Common Control Unit, J99252N, L3	0	1	

List 7 — Equipment and wiring required in addition to list 1 to arrange unit for way station lockout when dial access to PBX is provided:

	WIRE	EQUIP	NOTES
Common Control Unit, J99252N, L4	0	1	

Notes

B. The V3 amplifier (J68647A) and the 89-type resistors for the No. 1C pad shall be ordered separately and furnished as required.

C. The -48 volt power supply (KS-15620, L12) shall be ordered separately and furnished when -48 volts are not already available. Two adapter plates shall be furnished to adapt this unit for 23-inch mounting. The KS-15620, L12 rectifier has a capacity of 2 amperes and will supply power for one SS1 packaged unit (J99252BS). If more than one SS1 packaged unit is located at the same station, a rectifier shall be furnished as required to supply this larger load condition.

D. Order one 130-volt power supply unit J68651W for the V3 amplifier when +130 volts is not available at the way station.

J99252BT — AT&T Co Std — Private Service System Way Station Send and Receive One to Eighty-One Codes Arranged with Automatic or Manual Lockout for Privacy Unit

Equipment — J99252BT-()

List 1 — Assembly and interconnecting wiring, and equipment for one packaged unit for private service system way station

send, and receive one to 81 2-digit codes with arrangement for automatic privacy. (See Notes A and B and 5.10.)

	WIRE	EQUIP	NOTES
Decoder & Test Jack Units, J99252K, L1	0	1	
Sdg Code Rel Unit, J99252B, L1	0	1	
Keyer Unit, J99252L, L1	0	1	
Common Control Ckt, J99252N, L1	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 1, 2, 3, 4, 5, 6, 18, 19, 20, 39, H & K	1	0	

List 2 — Equipment and wiring required in addition to list 1 to provide an additional code relay circuit.

	WIRE	EQUIP	NOTES
Sdg Code Rel Unit, J99252B, L2	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 2	1	0	

List 3 — Equipment and wiring required in addition to list 1 to provide fusing for +130 and -48 volts.

	WIRE	EQUIP	NOTES
Fuse Indicator Unit, J99252M, L2	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 23 & 24	1	0	

List 4 — Equipment and wiring required in addition to list 1 to provide for manual lock-out for privacy.

	WIRE	EQUIP	NOTES
Manual Lockout Circuit, J99252N, L2	0	1	
SS1 Sel Sig Sys Cont Ckt, SD-98093-01, Fig. 28	1	0	

List 5 — Equipment and wiring required in addition to list 1 to provide connection to 3-digit interarea switching circuit.

	WIRE	EQUIP	NOTES
Decoder and Test Jack Unit, J99252K, L2	0	1	

List 6 — Equipment and wiring required in addition to list 1 to provide for local override of privacy.

	WIRE	EQUIP	NOTES
Common Control Unit, J99252N, L3	0	1	

Notes

A. The V3 amplifier (J68647A) and the 89-type resistors for the No. 10 pad shall be ordered separately and furnished as required.

B. The -48 volt power supply (KS-15620, L12) shall be ordered separately and furnished when -48 volts is not already available. Two adapter plates shall be furnished to adapt this unit for 23-inch mounting. The KS-15620, L12 rectifier has a capacity of 2 amperes, and will supply power for one SS1 packaged unit (J99252BT). If more than one SS1 packaged unit is located at the same station, a rectifier shall be furnished as required to supply this larger load condition.

J99252BU — AT&TCo Std — 3-Digit Interarea Switching Unit

Equipment — J99252BU-()

List 1 — Assembly, equipment, and wiring for one 3-digit interarea switching unit per SD-98093-01, Fig. 32.

J99252BV — AT&TCo Std — 2400- to 2600-Cycle Oscillator Unit

Equipment — J99252BV-()

List 1 — Assembly, equipment, and wiring for one 2400- to 2600-cycle oscillator unit per SD-98093-01, Fig. 34. (See note A.)

Note

A. This unit is equipped with an extension plate (P-41K139) which adapts it for 23-inch mounting.

J99252BW — AT&TCo — Central Office and PBX Access Unit

Equipment — J99252BW-()

List 1 — Mounting plate for access circuit.

List 2 — Assembly, wiring, and equipment required in addition to list 1 for dial access to central office or PBX per SD-98093-01, Fig. 36. (See Notes A and B.)

List 3 — Assembly, wiring, and equipment required in addition to list 1 for dial access from PBX per SD-98093-01, Fig. 37. (See Note A.)

Notes

A. The 24V4 terminal repeater required to connect 4-wire SS1 to the 2-wire central office or PBX should be equipped with one 1-type terminating set, one 359-type equalizer, and two 849-type networks.

B. At each way station, the common control unit J99252N should be equipped with list 6.

Wiring

5.01 No. 24 gauge-type BW wire shall be used for surface wiring of the units.

Cross-Connections

5.02 In the SS1 selective signaling system, flexibility of application and operation is provided through the use of cross-connections. This permits easy code reassignment, convenient addition or subtraction of control functions, and other modifications in operation that the customer or user may require as his needs change. The customer or user of the equipment should determine when such connections are to be connected through existing or otherwise provided distributing frame assignments. The requirements of distributing frame and line protection assignment are to be handled by the customer or user of the equipment involved; such requirements will probably be different for each location and each area.

5.03 When the decoder and test jack unit J99252K is specified, the 52B test set

equipped with cord and plug may be used to test the decoder unit by using the PLS jack made available on this unit.

5.04 When the keyer unit J99252L is specified, the 2B signaling test set equipped with a 3P7A cord may be used to test and adjust the keyer by using the test jacks made available on this unit.

5.05 When loop cutoff arrangement is required, it is necessary to furnish the J99252H loop cutoff relay unit with a P-41K139 extension plate in addition to the packaged unit and mounted below it. The interconnecting wiring should be furnished per SD-98093-01, Fig. 109. If loop cutoff is an addition to an existing arrangement which furnished interconnecting wiring per Fig. 107, the wiring must be changed to comply with Fig. 109. One Fig. 16 per SD-98093-01 should be equipped and wired for each loop requiring a cutoff arrangement. Mounting space below a packaged unit for the J99252H loop cutoff relay unit should be reserved only if future applications indicate possible loop cutoff operation.

5.06 The -48 volt rectifier (KS-15620, L12) shall be ordered separately and furnished when -48 volts are not already available. Two adapter plates shall be furnished to adapt this unit for 23-inch mounting. The KS-15620, L12 rectifier has a capacity of 2 amperes.

5.07 The +130 volt rectifier unit (J68651W) shall be ordered separately and furnished to supply +130 volts to the V3 amplifier when +130 volts is not already available. Two adapter plates (P-41K909) shall be furnished to adapt this unit for 23-inch mounting.

5.08 The E1B single-frequency unit (J98613D, L1) is not included in this packaged unit. If this unit or its replacement (E4B) is not already available, it must be ordered separately and plugged into the packaged unit.

5.09 J99252S through J99252Z, J99252AS through J99252AZ, and J99252BZ are unassigned.

List of A&M Only and Mfr Disc. Equipment

EQUIPMENT	RATING	DETAILS		EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
		LAST SHOWN IN ISSUE	REPLACING EQUIPMENT				
J99252A	Mfr Disc.	3	J99252K	J99252AH,L1	Mfr Disc.	3	J99252AH,L2
J99252C	Mfr Disc.	3	J99252L	J99252AJ,L1	Mfr Disc.	3	J99252AJ,L2
J99252D,L1	Mfr Disc.	3	J99252D,L3	J99252AK,L1	Mfr Disc.	3	J99252AK,L2
J99252M,L1	Mfr Disc.	5	J99252M,L2	J99252AL,L1	Mfr Disc.	3	J99252AL,L2
J99252N,L1	Mfr Disc.	6	J99252N,L5	J99252AM,L1	Mfr Disc.	3	J99252AM,L2
L2	Mfr Disc.	6	L6	J99252AN,L1	Mfr Disc.	3	J99252AN,L2
L3	A&M Only	6	L5	J99252AP,L1	Mfr Disc.	3	J99252AP,L2
L4	A&M Only	6	L6	J99252BA,L1	Mfr Disc.	3	J99252BA,L2
J99252P,L1	Mfr Disc.	6	J99252P,L4	J99252BG,L1	Mfr Disc.	3	J99252BG,L3
L2	Mfr Disc.	6	L5	J99252BH,L2	Mfr Disc.	6	—
J99252AA,L1	Mfr Disc.	3	J99252AA,L2	J99252BL,L2	Mfr Disc.	6	—
J99252AB	Mfr Disc.	3	—	J99252BM,L4	Mfr Disc.	6	—
J99252AC,L1	Mfr Disc.	3	J99252AC,L2	J99252BS,L2	Mfr Disc.	6	—
J99252AD,L1	Mfr Disc.	3	J99252AD,L2				
J99252AE,L1	Mfr Disc.	3	J99252AE,L2				
J99252AF,L1	Mfr Disc.	3	J99252AF,L2				
J99252AG,L1	Mfr Disc.	3	J99252AG,L2				

The above equipment has been replaced as indicated. Where A&M Only items appear, the issue numbers shown are those of the issue in which the rating was first applied.

TABLE A
SS1 SELECTIVE SIGNALING SYSTEM PACKAGED UNITS

	CENTRAL OFFICE UNIT	SEND			RECEIVE		LOCAL APPLICATION
		1 TO 81 CODES	1 CODE STA UNIT	2 CODES STA UNIT	1 TO 9 CODES STA UNIT	1 TO 81 CODES STA UNIT	
Send and Receive	J99252D	✓					Order Wire
	J99252AA	✓	J99252BB	J99252BC			1-LP OPR
	J99252AC	✓			J99252BA	J99252BG	1-LP OPR
	J99252AD	✓			J99252BA	J99252BG	1-LP LP-Cut off
	J99252AG	✓	J99252BB	J99252BC			2-LP OPR
	J99252AH	✓	J99252BB	J99252BC	J99252BA	J99252BG	2-LP OPR
	J99252AJ	✓			J99252BA	J99252BG	2-LP OPR
	J99252AK	✓	J99252BB	J99252BC			3-LP OPR
	J99252AL	✓	J99252BB	J99252BC	J99252BA	J99252BG	3-LP OPR
	J99252AM	✓			J99252BA	J99252BG	3-LP OPR
Send and Receive	J99252AN	✓	J99252BB	J99252BC	J99252BA	J99252BG	3-LP OPR
	J99252AP						Interarea Switching
	J99252AR						Interarea Switching
	None	✓			J99252BH		1-LP OPR
	None	✓				J99252BJ	1-LP OPR
	None	✓				J99252BP	No. 300 Switching System
Send Only	J99252AF	J99252BD*					1-LP OPR
	None	J99252BK*					1-LP OPR
	None	J99252BN*					No. 300 Switching System
	J99252AE	✓	J99252BE	J99252BF			1-LP OPR
Receive Only	None	✓			J99252BL		1-LP OPR
	None					J99252BM	1-LP OPR
Send and Receive	None				J99252BS	J99252BT	1-LP OPR With Common Control and Lockout for Privacy

* Unit located at station

TABLE B

ORDER WIRE CENTRAL OFFICE SEND AND RECEIVE ONE
TO EIGHTY-ONE CODES UNIT, J99252D

COMPONENT EQUIPMENT UNITS SHALL BE EQUIPPED AS FOLLOWS				
UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
J CODE	LIST NO.	ALWAYS	FOR OPTION INDICATED	
J99252K	1	1		
J99252B	1	1*		
	2		1	To arrange decoding in any tens digit for an additional nine codes (maximum 63 additional codes)
J99252L	1	1		

*J99252B, List 1 furnishes nine codes in any tens digit in addition to the nine codes furnished by the decoder unit J99252K.

TABLE C

PRIVATE SERVICE SYSTEM WAY STATION SEND AND RECEIVE
ONE TO EIGHTY-ONE CODES UNIT, J99252BG

COMPONENT EQUIPMENT UNITS SHALL BE EQUIPPED AS FOLLOWS				
UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
J CODE	LIST NO.	ALWAYS	FOR OPTION INDICATED	
J99252K	1	1		
J99252B	1	1*		
	2		1	To arrange decoding in any tens digit for an additional nine codes (maximum 63 additional codes)

*J99252B, List 1 furnishes nine codes in any tens digit in addition to the nine codes furnished by the decoder unit J99252K.

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