

**520B**  
**EMERGENCY REPORTING SYSTEM**  
**EQUIPMENT DESIGN REQUIREMENTS**  
**COMMON SYSTEMS**

**1. GENERAL**

**Scope**

**1.01** This specification, together with the supplementary information listed herein, covers the design requirements for the framework, equipment, and circuits to be used in the manufacture and installation of the 520B emergency reporting system.

**1.02** This specification is reissued to incorporate the addition of TOUCH-TONE® dialing and new face equipment for the fire detection and call transfer features.

**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

J99244—801-608-150—520A Emergency Reporting System—Equipment Design Requirements

J99251—801-608-155—809-703-156—520E Emergency Reporting System—Equipment Design Requirements

J99284—809-703-150—General Information Specification

**3. DRAWINGS**

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

ED-65896-( )—Switchboard Framework Assembly  
J99246A-( )—520-Type Emergency Reporting System  
Single-Section—2-Position Switchboard  
(Fig. 1)

J99246B-( )—Hand Generator Unit

SD-98052-01—Position, Cord, and Grouping Circuit

SD-98053-01—Alarm Circuit

SD-98054-01—Flash and Wink Circuit

SD-98055-01—Miscellaneous Circuit

SD-98060-01—Incoming Trunk Circuit

SD-98063-01—Receiver Circuit

**4. EQUIPMENT**

***J99246A—AT&TCo Std—520-Type Emergency Reporting System Single-Section—2-Position Switchboard***

Equipment—J99246A-( )

Cable Plan—ED-65897-10,11

ED-66101-10,11

ED-66069-10,11

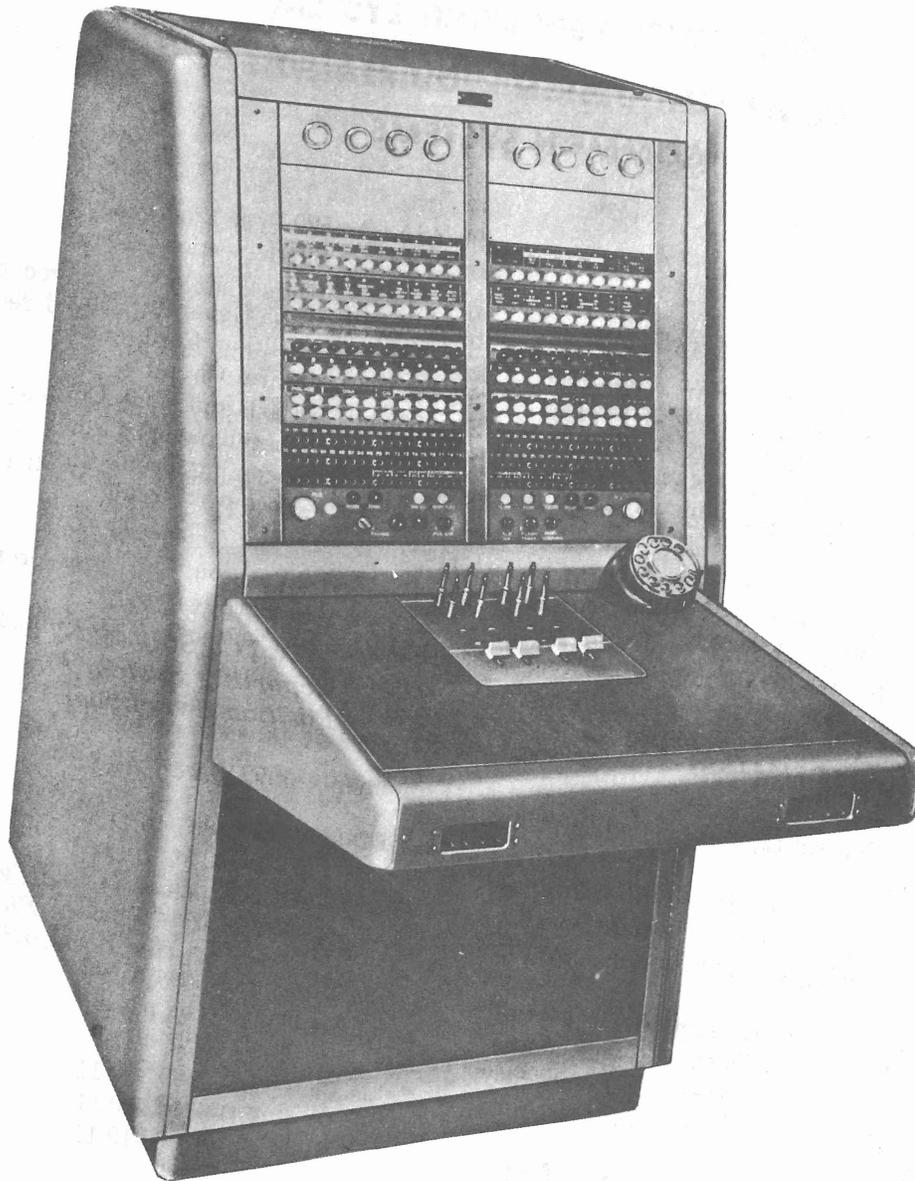


Fig. 1—520-Type Emergency Reporting System

- List 2**—Equipment required in addition to list 7 to provide the paging feature in accordance with SD-98055-01, Fig. 4.
- List 6**—Wiring and equipment required in addition to list 1 for an alternate method of providing two frame-mounted make-busy jacks in accordance with SD-98055-01, Fig. 12. (See Note E.)
- List 7**—Framework, assembly, wiring, and equipment for one single-section, 2-position switchboard.

	WIRE	EQUIP.	NOTES
Pos Cord and Grouping Ckt, SD-98052-01,			
Fig. 1	2	0	
Fig. 2	4	0	
Fig. 6	2	2	
Fig. 7	1	0	
Fig. 8	4	4	
Fig. 11	1	1	
Fig. 12	1	1	
Fig. 19	1	1	
Alarm Ckt, SD-98053-01,			
Fig. 3	1	1	A
Fig. 7	1	0	
Fig. 17	1	1	
Fig. 24	1	0	
Fig. 27	1	0	
Flash and Wink Ckt, SD-98054-01,			
Fig. 3, Option Z1	1	1	
Fig. 6, Option G	1	1	
Fig. 12	1	0	
Misc Ckt, SD-98055-01,			
Fig. 1	20	0	A
Fig. 4	1	0	
Inc Trk Ckt, SD-98060-01,			
Fig. 6	1	0	
Receiver Ckt, SD-98063-01,			
Fig. 2	1	0	

- List 8**—Equipment required in addition to list 7 for a 520C only, SD-98060-01, Fig. 6 and SD-98063-01, Fig. 2.
- List 9**—Framework, assembly, and equipment

required in addition to list 7 when a 520B or E emergency reporting system is arranged for terminal strip ended face equipment.

- List 10**—Assembly, wiring, and equipment required in addition to list 7 when TOUCH-TONE calling is required, SD-98052-01, Fig. 13, Fig. 16, Fig. 18, and Fig. 20.
- List 11**—Equipment required in addition to list 7 to provide for call transfer feature per SD-98052-01, Fig. 17.
- List 12**—Equipment required in addition to list 7 to provide for 520A or E emergency reporting system fire detection feature per SD-98053-01, Fig. 22.
- List 13**—Equipment required in addition to list 7 to provide for 520C emergency reporting system and fire detection, SD-98053-01, Fig. 27.
- List 14**—Equipment required in addition to list 12 or 13 when cut-off fire alarm key is required, SD-98053-01, Fig. 24.
- List 15**—Framework, assembly, and equipment required in addition to list 9 when a 520E emergency reporting system is arranged for terminal ended face equipment.

**Notes**

- A. The local cable for list 7 shall include wiring per SD-98052-01, W option, per SD-98053-01, Y option, and per SD-98055-01, Fig. 1 ground leads only.
- B. The local cable shall connect to the apparatus side of the terminal strips on the position and cord circuit units.
- C. The left telephone jacks, the first and second cords, shall be associated with the left-position circuit per SD-98052-01, Fig. 12, 19. The right telephone jacks, the third and fourth cords, shall be associated with the right-position circuit per SD-98052-01, Fig. 12, 19 with W option.
- D. Where list 8 is required in an installation equipped with 2Y switchboard lamps, provide SD-98063-01, Fig. 2 with W option; otherwise, provide SD-98063-01, Fig. 2 with X option.
- E. When space is available in face of switchboard, make-busy jacks should be provided per J99244BR-( ), Make-Busy Jack Unit.

*J99246B—AT&TCo Std—Hand Generator Unit*

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

Equipment—J99246B-( )

*List 1*—Assembly, wiring, and equipment for one hand generator unit in accordance with SD-98052-01, Fig. 10.

**5. GENERAL NOTES**

**Wiring**

**5.01** No. 22 gauge type BU wire shall be used for all local cable wiring in the switchboard and No. 24 gauge type BU wire for the frame local cable wiring. No. 24 gauge type BG wire (type SW1 wiring) shall be used for surface wiring on all units. No. 24 gauge type BG wire shall be used for all surface wiring on fuse panels.

EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
J99246A,L1 L4	Mfr Disc.	5	J99246A,L7
J99246A,L3	Mfr Disc.	5	J99246A,L8
J99246A,L5	Mfr Disc.	5	J99246A,L9

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.

Bell Telephone Laboratories, Incorporated

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