

**NUMERICAL INDEX — DIVISION 240
NO. 101 ELECTRONIC SWITCHING SYSTEM (ESS)**

1. GENERAL

- 1.01** This section provides an index of System-issued sections in Division 240.
- 1.02** A bullet (●) indicates an item that has been added or changed since the previous issue of the index.
- 1.03** A square (□) indicates a canceled item. Information relating to the cancellation, if necessary, will be shown in a note following the item. Canceled items and related notes will be deleted upon reissue of the index.
- 1.04** A star (★) indicates an item rated AT&T SPCS which contains trade secret information and which is available to authorized addressees only.
- 1.05** "Add" is the abbreviation for Addendum.

2. LAYERS

- 2.01** This division is arranged in layers as follows:
240-0 Index
-1 Common to ESS 101 Switch Unit and Control Unit
-2 ESS 101 Switch Unit
-3 ESS 101 Control Unit

3. INDEX

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240-101-101	1	200-Line — Description of System Operation
Add 240-101-102	2	
240-101-102	1	2A — Description of System Operation
Add 240-101-103	1	
240-101-103	1	3A — Description of System Operation
240-101-104	3	4A — Description of System Operation
□ 240-101-105	1	Wideband Switch Unit (J1H023) — Description of System Operation <i>Equipment was not manufactured.</i>
240-102-101	3	Data Transmission — Description of System Operation
240-103-101	1	Digit Reception at Control Unit — Description of System Operation
240-104-101	1	Control Unit Stores — Description of System Operation

Section Number	Issue	Subject
240-105-101	2	Data, Digit, and Sender Controls — Description of System Operation
★ 240-106-101	2	Call Processor — Description of System Operation
240-107-101	3	Central Office and Tie Trunk Circuits — Description of System Operation
240-108-101	1	Maintenance Circuits — Description of System Operation
★ 240-109-101	2	Call Programs — Description of System Operations
240-110-101	2	Maintenance Programs — Description of System Operation

240-2 ESS 101 SWITCH UNIT

240-200 1A Switch Unit

240-201-201	2	J1H011A — Identification and Installation
240-202-201	2	J1H011A — Connections
240-204-201	2	J1H011A — Attendant Equipment 1-Type Telephone Console — Connections
240-204-202	1	J1H011A — Attendant Equipment Attendant Direct Station Selection — Installation and Connection
240-207-201	2	Miscellaneous Equipment (4-Wire Trunk Circuit, Attendant Conference or Conference Calling Circuit, 3A Code Call Unit Trunk, Paging Trunk, Recorded Telephone Dictation Trunk, DID Answering Machine Circuit, Transmission Test Line Circuit, and Additional Power Failure Station Circuits) Identification, Installation, and Connections
240-208-201	1	Service Options — Method of Providing
240-209-201	1	J1H011A — Tests and Inspections at Time of Installation
240-226-501	3	J1H011A — Manual Tests
240-226-502	1	Leakage Test of 443A (PNPN) Diodes
240-227-501	2	J1H011A — Data Receiver Circuit — Tests Using 124A Test Set SD-1H070-01
240-228-501	2	J1H011A — Data Distributor Circuit — Tests Using 124A Test Set SD-1H070-01
240-229-501	2	J1H011A — Clock Circuit — Tests Using 124A Test Set SD-1H070-01
240-230-501	2	J1H011A — Switch Store Circuit — Tests Using 124A Test Set SD-1H070-01

SECTION 240-000-000

Section Number	Issue	Subject
240-231-501	2	J1H011A — Ring-Ringback Logic Circuit — Tests Using 124A Test Set SD-1H070-01
240-232-501	2	J1H011A — Line Number Translator Circuit — Tests Using 124A Test Set SD-1H070-01
240-233-501	2	J1H011A — Attendant Number Translator Circuit — Tests Using 124A Test Set SD-1H070-01
240-234-501	2	J1H011A — Attendant Circuit — Tests Using 124A Test Set SD-1H070-01
240-235-501	2	J1H011A — Transfer and Alarms Circuit — Tests Using 124A Test Set SD-1H070-01
240-236-501	2	J1H011A — Test Line Circuit — Tests Using 124A Test Set SD-1H070-01
240-237-501	2	J1H011A — Bus Clamp and Interbus Switch Circuit — Tests Using 124A Test Set SD-1H070-01
240-238-501	2	J1H011A — Tone Generators Circuit — Tests Using 124A Test Set SD-1H070-01
240-239-501	2	J1H011A — Scanner Circuit — Tests Using 124A Test Set SD-1H070-01
240-240-501	2	J1H011A — Data Transmitter Circuit — Tests Using 124A Test Set SD-1H070-01
240-241-301	2	Attendant and Station Equipment — Method of Operation

240-245 2A Switch Unit

240-245-201	3	Identification and Installation
240-245-202	2	Connections From Switch Unit Cabinets to ED-1H408 Distributing Frame
240-245-203	3	Connections From Switch Unit Frames to Locally Provided Distributing Frame
240-246-201	3	Attendant Equipment 1- and 2-Type Telephone Console — Connections
240-246-202	2	Attendant Equipment — Attendant Direct Station Selection — Installation and Connection
240-248-201	2	2A — Miscellaneous Equipment — Identification, Installation, and Connections
240-249-200	1	Service Options — Methods of Providing
240-249-201	4	Tests and Inspections at Time of Installation
240-250-301	3	General Guide to Trouble Analysis
240-250-302	2	131A Test Set
240-251-501	2	Manual Tests
240-252-501	1	Attendant Equipment — Attendant Direct Station Selection — Operation Test
240-253-501	3	Trouble Locating Procedure for Failure Cured by Grand Slam Using 131A Test Set

Section Number	Issue	Subject
240-253-502	3	Trouble Locating Procedure for Failures Resulting in a Scanner Switch Using 131A Test Set
Add 240-253-503	1	
240-253-503	2	Trouble Locating Procedure for Failure Detected by Time Division Control Disable Using 131A Test Set
240-253-504	3	Trouble Locating Procedure for Failure Detected by a Bounce Test
240-253-505	3	Trouble Locating Procedure for Failure Detected by a Force Off-Hook Test
240-253-506	3	Trouble Locating Procedure for Failure Detected by a Group Translator Test Using 131A Test Set
240-253-507	3	Trouble Location Procedures for Failure Detected by an Immediate or Interrupted Ring Test
240-253-508	3	2A — Trouble Locating Procedure for Failure Detected by a Transmission Test
240-253-509	3	Trouble Locating Procedure for Failure of Attendant Circuit — Using 131A Test Set
240-253-510	2	Trouble Locating Procedure for Failures Detected During 24-Hour Maintenance Using 131A Test Set
240-253-511	3	Trouble Locating Procedure for Failure Detected by an Intergroup Switch Test Using 131A Test Set
240-253-512	3	Trouble Locating Procedure for Failure Detected by a Digit Trunk Test Using 131A Test Set

240-255 3A Switch Unit

240-255-201	3	Identification and Installation
240-255-203	2	Connections — From Switch Unit Frames to ED-1H409 Distributing Frame
240-255-204	1	Installation and Connection of J1H013E Frame to an Operating Switch Unit
240-256-201	2	3A or 4A — Attendant Equipment — 1- and 2-Type Telephone Console — Connections
240-256-202	2	Attendant Equipment — Attendant Direct Station Selection — Installation and Connection
240-258-201	2	Miscellaneous Equipment — Identification, Installation, and Connections
240-259-200	1	Service Options — Method of Providing
240-259-201	4	Tests and Inspections at Time of Installation
240-260-301	3	General Guide to Trouble Analysis
240-260-302	2	131A Test Set — Application for 3A Switch Unit Testing
240-261-501	2	Manual Tests
240-262-501	1	Attendant Equipment — Attendant Direct Station Selection — Operation Test

Section Number	Issue	Subject	Section Number	Issue	Subject
240-263-501	3	3A and 4A — Trouble Locating Procedures for Failure Cured by Grand Slam Using 131A Test Set	<input type="checkbox"/> 240-275-203	1	SD-1H090-01 and SD-1H091-01 — Connections <i>Equipment was not manufactured.</i>
Add 240-263-502	1		240-3 ESS 101 CONTROL UNIT		
240-263-502	3	Trouble Locating Procedures for Failure Resulting in Scanner Switch Using 131A Test Set SD-1H119-01	240-300-301	2	Emergency Action Procedures
240-263-504	3	3A or 4A — Trouble Locating Procedure for Failure Detected by a Bounce Test	240-300-302	2	Night Coverage Procedure
240-263-505	3	3A and 4A — Trouble Locating Procedure for Failure Detected by Force Off-Hook Test	240-313-301	1	Trunk Control Frame Cross Connections
240-263-506	3	3A or 4A — Trouble Locating Procedure for Failure Detected by a Group Translator Test	240-314-010	1	Procedure for Preparing Form E-5130-9 — Program Store Administrative Data
240-263-507	3	Trouble Locating Procedure for Failure Detected by an Immediate or Interrupted Ring Test Using 131A Test Set	240-315-301	1	Method of Encoding Twistor Store Cards — Using the 2A Card Writing Unit
240-263-508	4	3A or 4A — Trouble Locating Procedure for Failure Detected by Transmission Test	240-315-501	2	Twistor Store Cards — Verification Procedure — Using Maintenance Center and Teletypewriter
240-263-509	3	3A or 4A — Trouble Locating Procedure for Failure of Attendant Circuit Using 131A Test Set	240-315-701	1	2A Card Writing Unit — Requirements and Adjusting Procedures
240-263-510	2	3A or 4A — Trouble Locating Procedure for Failures Detected During 24-Hour Maintenance Using 131A Test Set	240-315-801	1	2A Card Writing Unit SD-1H063 — Piece-Part Data and Replacement Procedures
240-263-511	3	Trouble Locating Procedure for Failure Detected by an Intergroup Switch Test Using 131A Test Set	240-321-501	3	Maintenance Center On-Line Timers — Test of Redundant Circuits
240-263-512	3	3A or 4A — Trouble Locating Procedure for Failure Detected by Digit Trunk Test Using 131A Test Set	240-323-501	5	Maintenance Center Lockout Relays — Test of Redundant Circuits
● Add 240-263-513	1		240-325-501	3	Maintenance Center Alarm Circuit — Test of Redundant Circuits
240-263-513	2	Trouble Locating Procedure for Failures Detected by the Synch Test Using 131A Test Set SD-1H119-01	240-327-501	3	Maintenance Center Data Control Transfer Circuit — Test of Power Diodes
240-265 4A Switch Unit			240-341-501	2	Twistor Store — Conditioning Procedure
240-265-201	3	Identification, Installation, Connections and Service Options	240-343-501	2	Control Unit Clock — Manual Test
240-269-201	1	Tests and Inspections at Time of Installation	240-345-501	2	Call Store — Marginal Test
240-270-301	1	General Trouble Analysis Guide	240-347-501	5	Program Store — Marginal Test
240-271-501	1	Manual Tests	240-349-501	4	Line Information Store — Marginal Test
240-275 Wideband Switch Unit			240-351-501	3	Control Unit Data Link Transfer Circuit — Test of Power Diodes
<input type="checkbox"/> 240-275-201	1	SD-1H090-01 and SD-1H091-01 — Identification and Installation <i>Equipment was not manufactured.</i>	240-353-501	3	Control Unit Data Transmitter — Test of the Power Diodes
			240-355-301	2	Test Point Comparator Circuit SD-1H059 — Method of Operation
			240-355-501	2	Test Point Comparator Circuit SD-1H059-01 — Tests