

**NUMERICAL INDEX — DIVISION 030
CALCULAGRAPHS, CALL TIMING SWITCH, CAMERAS, CLOCKS,
COUNTERS, PHOTO PROCESSORS, REGISTERS,
SELECTOR MULTIPLE DESIGNATION CARDS, SWITCHES,
TAPE PRINTERS, TICKETERS, TIMERS, AND TIME STAMP**

1. GENERAL

- 1.01** This section provides an index of System-issued sections in Division 030.
- 1.02** This section reverted to Issue 1 in November, 1979. Prior to that date there had been 99 issues of the section.
- 1.03** A bullet (●) indicates an item that has been added or changed since the previous issue of the index.
- 1.04** 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.
- 1.05** "Add" is the abbreviation for Addendum.

2. LAYERS

- 2.01** This division is arranged in layers as follows:
- 030-0 Indexes and Equipment Test Lists
- 1 Calculagraphs, Clocks, Timers, Call Timing Switch, and Time Stamp
 - 3 Cameras, Counters, Photo Processors, Registers, Tape Printers, and Ticketers
 - 7 Selector Multiple Designation Cards, Switches
 - 8 Sequence Switches
 - 9 Condensed Sections

3. INDEX

Section Number	Issue	Subject	Section Number	Issue	Subject
030-0 INDEXES AND EQUIPMENT TEST LISTS					
● 030-000-000	4	Numerical Index — Division 030 — Calculagraphs, Call Timing Switch, Cameras, Clocks, Counters, Photo Processors, Registers, Selector Multiple Designation Cards, Switches, Tape Printers, Ticketers, Timers, and Time Stamp	030-100-301	1	
030-001-011	9	ETL — Selector Switches — Miscellaneous Apparatus	030-100-301	1	Calculagraphs — Models 6 and 30 and KS-7769 (Model 33) — Operating Methods
030-001-012	3	ETL — Calculagraphs, Clocks, Timers — Miscellaneous Apparatus	030-100-701	6	Calculagraphs — Models 6 and 30 — Requirements and Adjusting Procedures
030-001-013	1	ETL — Miscellaneous Apparatus	030-100-801	6	Calculagraphs — Models 6 and 30 — Piece-Part Data and Replacement Procedures
030-001-014	2	ETL — Counters, Registers, Ticketers	030-101-101	1	Calculagraphs, Electrically Driven — Model 30 and Model 33 — Description
030-001-015	3	ETL — Switches — Miscellaneous Apparatus	030-102-701	7	Calculagraphs — KS-7769 (Model 33) — Requirements and Adjusting Procedures
030-1 CALCULAGRAPHS, CLOCKS, TIMERS, CALL TIMING SWITCH, AND TIME STAMP					
030-100-101	1	Calculagraphs, Spring Driven — Description	030-102-801	6	Calculagraphs — KS-7769 (Model 33) — Piece-Part Data and Replacement Procedures
			030-110-701	2	Electric Clock — KS-8155 — Requirements and Adjusting Procedures
			030-111-501	1	Measurement of Timing Intervals — Using S1 Timer
			030-111-701	2	Standard Electric Time Company's — S-1, S-1A, and S-10 Timers and KS-8160 Electric Stop Clock — Requirements and Adjusting Procedures
			030-112-701	2	Electric Stop Clock — KS-8259 — Requirements and Adjusting Procedures
			030-113-701	3	Motor Driven — Switchboard Clock KS-8263 — Requirements and Adjusting Procedures
			030-114-801	2	Switchboard Position Clocks — KS-14156 L13, L14, L15, and L16 — Replacement Procedures
			030-114-811	2	Switchboard Position Clocks — KS-14156 L13, L14, L15 and L16 — Positioning and Setting
			Add 030-115-701	2	
			030-115-701	2	Electric Stop Clock — KS-14235 — Requirements and Adjusting Procedures
			030-120-101	1	Electric Clock Systems For Telephone Offices — Description
			030-121-501	2	Clock Circuits — Tests
			030-121-701	2	Master Clocks — KS-1299, KS-1924, KS-1925, KS-1926, KS-1927, KS-1928, KS-1929, KS1930, KS-1931, KS-6777 and KS6778 — Requirements and Adjusting Procedures

NOTICE

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SECTION 030-000-000

Section Number	Issue	Subject
030-122-701	3	Electric Clocks — 1 Type — Requirements and Adjusting Procedures
030-124-701	2	Secondary Clocks — Requirements and Adjusting Procedures
030-125-501	4	Building Master Clocks — Precise Time Setting
Add 030-140-701	1	
030-140-701	3	Nonzone Timers No. 1A and D-99005 and Associated Nos. 51A, 51C, 52A, D-99004 and D-179538 Drives — Requirements and Adjusting Procedures
Add 030-140-702	1	
030-140-702	4	Coin Timers No. 1B, D-99006, and D-159938 and Associated Nos. 51A, 51C, 52A, D-99004, and D-179538 Drives — Requirements and Adjusting Procedures
Add 030-140-703	1	
030-140-703	4	Nonzone Test Timers No. 1C and D-99325 — Coin Test Timers No. 1D and D-99326 and Associated Nos. 51B, 51D, 52B, D-156125, and D-179539 Drives — Requirements and Adjusting Procedures
030-140-801	2	1-Type Timers and Associated 51- and 52-Type Drives — Piece-Part Data and Replacement Procedures
030-140-811	1	1-Type Timers — Conversion of Associated 51- and 52-Type Drives From 5- to 4-Minute Operation — Piece-Part Data and Replacement Procedures
030-141-701	9	2-Type, 4A, 4B (Mfr Disc.), 4E, and D-171689 — Requirements and Adjusting Procedures
030-141-801	7	2-Type, 4A, 4B (Mfr Disc.), 4E, and D-171689 — Piece-Part Data and Replacement Procedures
030-142-701	2	Timers — 3-Type — Requirements and Adjusting Procedures
030-142-801	1	Timers — 3-Type — Piece-Part Data and Replacement Procedures
030-150-701	2	Nonzone Timer D-159823 and Associated No. 51A Drive — Requirements and Adjusting Procedures
030-155-801	4	KS-Specification Timers — General Replacement Information
030-156-701	1	Timers KS-8543 and KS-8564 — Requirements and Adjusting Procedures
030-157-701	7	KS-14741 Program Timers — Requirements and Adjusting Procedures
030-157-801	6	KS-14741 Program Timers — Piece-Part Data and Replacement Procedures
030-159-701	3	Timers — KS-16329, L1 and L2 — Requirements and Adjusting Procedures
030-159-801	2	Timers — KS-16329, L1 and L2 — Piece-Part Data and Replacement Procedures

Section Number	Issue	Subject
030-170-701	1	KS-5464 Call Timing Switch — Requirements and Adjusting Procedures
030-176-701	2	Stromberg Time Stamp — Requirements and Adjusting Procedures

030-3 CAMERAS, COUNTERS, PHOTO PROCESSORS, REGISTERS, TAPE PRINTERS, AND TICKETERS

030-300-301	2	Photographing Message Registers — Using Electrically Operated KS-7703 and KS-8320 Cameras
030-300-701	2	Message Register Cameras KS-7703 and KS-8320 — Requirements and Adjusting Procedures
Add 030-301-301	1	
030-301-301	4	Photographing Message Registers — Using KS-14593, L1 Message Register Camera and KS-14778 Photo Processor
Add 030-301-701	1	
030-301-701	2	KS-14593, List 1 — Message Register Camera — Requirements and Adjusting Procedures
030-301-801	3	KS-14593, List 1 — Message Register Camera — Piece-Part Data and Replacement Procedures
Add 030-302-301	1	
030-302-301	5	Photographing Traffic Registers — Using Electrically Operated KS-14776 Camera
030-302-701	5	Traffic Register Cameras — KS-14776 L1 and L2 — Requirements and Adjusting Procedures
030-302-801	7	Cameras — KS-14776 L1 and L2 — (Traffic Register Cameras) — Piece-Part Data and Replacement Procedures
Add 030-304-301	1	
030-304-301	1	Photographing Message Registers — Using KS-20900 L1 Message — Register Camera
030-310-701	3	KS-7495 and KS-14359 Magnetic Counters — Requirements and Adjusting Procedures
030-311-811	1	Method of Mounting KS-16493 Magnetic Counter — In Place of KS-14359 Magnetic Counter
030-312-701	2	3-Type Counter — Requirements and Adjusting Procedures
030-313-101	2	Magnetic Counters — Description
030-320-701	2	Photo Processor KS-14778 — Requirements and Adjusting Procedures
030-320-801	1	KS-14778 Photo Processor — Piece-Part Data and Replacement Procedures
030-330-701	7	Line Message Registers 5-Type — Requirements and Adjusting Procedures
030-330-702	5	Traffic and Plant Registers 5- and 12-Types — Requirements and Adjusting Procedures
030-331-701	5	14-Type Line Message Registers — Requirements

Section Number	Issue	Subject	Section Number	Issue	Subject
030-331-702	5	14-Type Traffic and Plant Registers — Requirements and Adjusting Procedures	Add 030-705-702	1	
030-331-801	4	14-Type Registers — Piece-Part Data and Replacement Procedures	030-705-702	11	197- and 198-Type Switches — Rotary, Vertical, and Release Mechanisms — Requirements and Adjusting Procedures
030-332-501	2	Traffic Register 100-Operation Tests — Using Message Register Test Set SD-30490-01 or ES-360006	030-705-703	10	197- and 198-Type Switches — Contact Spring Assemblies — Requirement and Adjustment Procedures
030-332-502	1	Traffic Register Tests — Using Test Set SD-32150-01	Add 030-705-704	1	
Add 030-333-701	1		030-705-704	9	197- and 198-Type Switches, Banks, Commutators, Wipers, Jack Springs, and Switch Operation — Requirements and Adjusting Procedures
030-333-701	1	Line-Message Registers — 15 Type — Requirements	030-705-706	12	Switches — 197- and 198-Types — Lubrication — Requirements and Procedures
030-334-701	1	19A and 20A Line Message Registers — Requirements	030-705-711	2	Side Switch — (Part of Earlier 197-Type Switches) — Requirements and Adjusting Procedures
030-340-701	2	Bunnell Ink Writing Register — (Pen Register) — Requirements and Adjusting Procedures	Add 030-705-801	1	
030-341-701	4	20-Pulse Pen Registers — KS-3106 (Single Pen) and KS-3107 (Double Pen) and Similar Pen Registers Manufactured by Foote-Pierson Co. or J. H. Bunnell Co. — Requirements and Adjusting Procedures	030-705-801	4	197- and 198-Type Switches — Associated Banks and Commutators — Piece-Part Data and Replacement Procedures
Add 030-342-301	1		030-705-802	8	197- and 198-Type Switches — Parts Mounted Above Coverplate Except Pawls, Pawl Pins, and Contact Spring Assemblies — Piece-Part Data and Replacement Procedures
030-342-301	3	KS-19717 Tape Printer — Operating Procedures	Add 030-705-803	1	
030-342-701	3	KS-19717 L1, L2, L4, and L5 Tape Printer — Requirements and Adjusting Procedures	030-705-803	10	Switches — 197 and 198 Types — Contact Spring Assemblies, Test Jack Assemblies, and Normal Post Cams — Piece-Part Data and Replacement Procedures
030-342-702	2	KS-19717 L3, L6 and L7 Tape Printers — Requirements and Adjusting Procedures	Add 030-705-804	1	
030-342-801	3	KS-19717 L1, L2, L4, and L5 Tape Printers — Piece-Part Data and Replacement Procedures	030-705-804	7	197- and 198-Type Switches — Cords, Cord Holders, Commutators, Wiper Springs, and Parts Associated With the Coverplate — Piece-Part Data and Replacement Procedures
030-342-802	2	KS-19717 L3, L6, and L7 Tape Printers — Piece-Part Data and Replacement Procedures	030-705-805	5	197- and 198-Type Switches — Pawls and Pawl Pins — Piece-Part Data and Replacement Procedures
030-360-701	5	1-Type Message Ticketer — Requirements and Adjusting Procedures	Add 030-705-806	1	
Add 030-360-801	1		030-705-806	10	197- and 198-Type Switch Banks — Piece-Part Data and Replacement Procedures
030-360-801	1	1-Type Message Ticketer — Piece-Part Data and Replacement Procedures	030-705-807	1	197- and 198-Type Switches — Procedures for the Replacement Supply Bank Insulators Where Banks Have Silver Plate Bank Contacts
030-7 SELECTOR MULTIPLE DESIGNATION CARDS, SWITCHES					
030-700-701	3	188- and 189-Type Switches — Requirements and Adjusting Procedures	030-705-820	3	197- and 198-Type Switches — Methods of Mounting Capacitors and Networks on Shelf Angles
030-705-301	3	Designation Cards for Selector Multiple — Method of Using — Step-by-Step Systems	030-705-821	2	Step-by-Step Switch Covers — Removal of Felt Seals and Installing Fibre Strips
030-705-501	8	197- and 198-Type Switches and Line Switches — Equipment Insulation and Bank Ground Test	030-710-701	2	202-Type Switches — Requirements and Adjusting Procedures
030-705-502	1	197- and Similar Type Switches — Insulation Resistance of Banks and Bank Multiple — Tests	030-711-701	2	211- and 212-Type Switches — Requirements and Adjusting Procedures
030-705-701	5	197- and 198-Type Switches — Requirements and Adjusting Procedures	030-711-801	1	211- and 212-Type Switches — Piece-Part Data and Replacement Procedures

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Section Number	Issue	Subject	Section Number	Issue	Subject
030-712-701	3	216- and 217-Type Switches — Requirements and Adjusting Procedures	Add 030-761-701	1	
030-712-801	3	Nos. 216A and 217A Switches — Piece-Part Data and Replacement Procedures	030-761-701	2	Plunger Type Switches — Primary and Secondary Line Switches and Out Trunk Switches — Requirements and Adjusting Procedures
030-713-701	4	223-Type Coaxial Switches — Requirements	030-761-801	3	Plunger Type Switches and Banks — Primary and Secondary Line Switches and Out Trunk Switches — Piece-Part Data and Replacement Procedures
030-715-701	7	Switches — 300, 301, 302 and 303 Types — Requirements and Adjusting Procedures	030-762-701	2	Solenoid Type Master Switch
Add 030-715-801	2		030-762-801	2	Solenoid Type Master Switches — Piece-Part Data and Replacement Procedures
030-715-801	5	Switches — 300, 301, 302, and 303 Types — Piece-Part Data and Replacement Procedures	030-765-701	1	Stud Type Rotary Switches — 34- and 37-Type Potentiometers, Certain Artificial Lines and Attenuators — Requirements and Adjusting Procedures
030-717-701	6	Switches — 304, 305, 306, 307, 308, 314, 315, and 318 Types — Requirements and Adjusting Procedures	030-765-702	2	Stud Type Rotary Switches — 212 Type Input Transformers — Requirements and Adjusting Procedures
Add 030-717-801	1		030-765-703	1	Stud Type Rotary Switches — D-95522 — Rheostats — D-88790, D88791, D88792, D88793, D-91283, D91378 — Potentiometers — 20A, 22A, 22B, 25A, 25B, 26A, 30A, and 30B Types — D-81127, D-81157, D-81158, D-81228, D-81236, D-81238, D-81284, D-81312, D-85675, D-85738, D-86118, D-88204, D-88205, D-88206, D-88207, D-88328, D-88702, D-88733, D-90329, D-90330, D-90331, D-91381, D-92146, D-92147, D-92515, D-93385, D-95140, D-95415 — Requirements and Adjusting Procedures
030-717-801	5	Switches — 304-, 305-, 306-, 307-, 308-, 314-, 315-, and 318-Type — Piece-Part Data and Replacement Procedures			
030-720-701	9	Switches — 324, 325, 328, 334, and 338 Types — Requirements and Adjusting Procedures	030-766-701	5	Rotary Switch — Automatic Electric Company 25 Point — Heavy-Duty Type — (Used in Secondary Line Switch Allotter Circuits) — Requirements and Adjusting Procedures
030-720-801	8	324, 325, 328, 334, and 338 Type Switches — Piece-Part Data and Replacement Procedures	030-766-702	4	Rotary Switch — Automatic Electric Company 25 Point — Light-Duty Type — Requirements and Adjusting Procedures
Add 030-721-701	1		030-766-801	3	Automatic Electric Company 25-Point Rotary Switches and Associated Banks — Piece-Part Data and Replacement Procedures
030-721-701	6	Small Crossbar Switch — Requirements and Adjusting Procedures	Add 030-767-701	1	
030-721-801	6	Small Crossbar Switch — Piece-Part Data and Replacement Procedures	030-767-701	6	Switch per D-159393 and Associated Motor Generator for A3 and A5 Privacy Systems — Requirements and Adjusting Procedures
030-740-701	8	Knife Switches — Requirements and Adjusting Procedures	030-780-301	1	Automatic Electric Company's — 25-Ampere and 80-Ampere Automatic Voltage Regulator Switches — Operation
030-741-701	3	Palmer Master Switches — Contactor Type — Requirements and Adjusting Procedures	030-780-701	2	Automatic Electric Company's — 25-Ampere and 80-Ampere Counter EMF Cell Switches — Requirements and Adjusting Procedures
030-741-801	1	Palmer Master Switches — Contactor Type — Piece-Part Data and Replacement Procedures	030-785-701	8	Switch Panels — Single Motor-Driven Type — KS-15610 and KS-15624 — Requirements and Adjusting Procedures
030-742-701	4	KS-5189, KS-5189-01, KS-5189-02, and KS-5189-03 — Emergency Lighting Relay Switches — Requirements and Adjusting Procedures	030-785-801	2	Switch Panels — Single Motor-Driven Type — KS-15610 and KS-15624 — Replacement Parts and Procedures
030-742-801	3	KS-5189, KS-5189-01, KS-5189-02, and KS-5189-03 — Emergency Lighting Relay Switches — Piece-Part Data and Replacement Procedures			
030-743-701	1	Palmer Master Switches — Requirements and Adjusting Procedures			
030-744-701	10	Manually Operated Rotary Switches — Requirements and Adjusting Procedures			
030-745-701	1	Knife and Rotary Switches — Cleaning and Lubrication			
Add 030-760-701	1				
030-760-701	3	4-Type Foot Switches — Requirements and Adjusting Procedures (Condensed Section: 030-970-701)			

Section Number	Issue	Subject	Section Number	Issue	Subject
Add 030-786-701	1		030-8 SEQUENCE SWITCHES		
030-786-701	4	Motor-Driven Switches — KS-15847 Type — Requirements and Adjusting Procedures	030-801-501	2	Test for Slipping Drives
Add 030-786-801	1		030-801-701	6	A and B Types — Requirements and Adjusting Procedures
030-786-801	3	Motor Driven Switches — KS-15847 Type — Replacement Parts and Procedures	030-801-801	6	A and B Types — Piece-Part Data and Replacement Procedures
030-787-701	7	Motor-Driven Switches — KS-5502 and KS-15836 Type — Requirements and Adjusting Procedures	030-801-811	1	Repair of Magnet Coils
030-787-801	3	Motor-Driven Switches — KS-5502 and KS-15836 Type — Replacement Parts and Procedures	030-801-812	7	Procedure for Replacing Tips of Worn Contact Springs
030-789-701	1	Emergency Cell Switches — Motor-Driven Rotary Type — Requirement and Adjusting Procedures	030-801-813	4	Procedure for Shortening Springs
Add 030-790-701	1		030-801-814	4	Procedure for Splitting Springs
030-790-701	1	KS-5312 Emergency Cell Switch and Automatic Switch Company Transfer Switches Having No KS Designations — Requirements and Adjusting Procedures	030-802-701	2	Spring Driven — Requirements and Adjusting Procedures
			030-9 CONDENSED SECTIONS		
			030-970-701	1	4-Type Foot Switches — Requirements — (Condensed Section for 030-760-701)