

**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** 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** "Add" is the abbreviation for Addendum, and "Sup" is the abbreviation for Supplement.

**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
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030-001-011	3	ETL	030-102-801	6	Calculagraphs — KS-7769 (Model 33) — Piece-Part Data and Replacement Procedures
<b>030-1 CALCULAGRAHS, CLOCKS, TIMERS, CALL TIMING SWITCH, AND TIME STAMP</b>					
030-100-101	1	Calculagraphs, Spring Driven — Description	030-110-701	2	Electric Clock — KS-8155 — Requirements and Adjusting Procedures
030-100-301	1	Calculagraphs — Models 6 and 30 and KS-7769 (Model 33) — Operating Methods	030-111-501	1	Measurement of Timing Intervals — Using S1 Timer
030-100-701	6	Calculagraphs — Models 6 and 30 — Requirements and Adjusting Procedures	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
030-100-801	6	Calculagraphs — Models 6 and 30 — Piece-Part Data and Replacement Procedures	030-112-701	2	Electric Stop Clock — KS-8259 — Requirements and Adjusting Procedures
030-101-101	1	Calculagraphs, Electrically Driven — Model 30 and Model 33 — Description	030-113-701	3	Motor Driven — Switchboard Clock KS-8263 — Requirements and Adjusting Procedures
			030-114-801	1	KS-14156 Switchboard Position Clocks — Piece-Part Data and Replacement Procedures
			030-114-811	1	Switchboard Position Clocks — KS-14156, Lists 13, 14 and 15-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
			030-122-701	3	Electric Clocks — 1 Type — Requirements and Adjusting Procedures
			030-124-701	2	Secondary Clocks — Requirements and Adjusting Procedures
			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

**SECTION 030-000-000**

Section Number	Issue	Subject	Section Number	Issue	Subject
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			030-301-301	4	Photographing Message Registers — Using KS-14593, L1 Message Register Camera and KS-14778 Photo Processor
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	Add030-301-701	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
030-140-801	2	1-Type Timers and Associated 51- and 52-Type Drives — Piece-Part Data and Replacement Procedures	Add030-302-301	1	
			030-302-301	4	Photographing Traffic Registers — Using Electrically Operated KS-14776 Camera
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	030-302-701	4	KS-14776 L1 and L2 — Requirements and Adjusting Procedures
030-141-701	5	Timers — 2-Type, No. 4A, and D-171689 — Requirements and Adjusting Procedures	030-302-801	5	Cameras — KS-14776 L1 and L2 — (Traffic Register Cameras) — Piece-Part Data and Replacement Procedures
030-141-801	4	Timers — 2-Type, No. 4A, and D-171689 — Piece-Part Data and Replacement Procedures	030-310-701	3	KS-7495 and KS-14359 Magnetic Counters — Requirements and Adjusting Procedures
030-142-701	2	Timers — 3-Type — Requirements and Adjusting Procedures	030-311-811	1	Method of Mounting KS-16493 Magnetic Counter — In Place of KS-14359 Magnetic Counter
030-142-801	1	Timers — 3-Type — Piece-Part Data and Replacement Procedures	030-312-701	2	3-Type Counter — Requirements and Adjusting Procedures
030-150-701	2	Nonzone Timer D-159823 and Associated No. 51A Drive — Requirements and Adjusting Procedures	030-313-101	2	Magnetic Counters — Description
030-155-801	1	KS-Specification Timers — General Replacement Information	030-320-701	2	Photo Processor KS-14778 — Requirements and Adjusting Procedures
030-156-701	1	Timers KS-8543 and KS-8564 — Requirements and Adjusting Procedures	030-320-801	1	KS-14778 Photo Processor — Piece-Part Data and Replacement Procedures
030-157-701	5	KS-14741 Program Timers — Requirements and Adjusting Procedures	030-330-701	7	Line Message Registers 5-Type — Requirements and Adjusting Procedures
030-157-801	4	KS-14741 Program Timers — Piece-Part Data and Replacement Procedures	030-330-702	5	Traffic and Plant Registers 5- and 12-Types — Requirements and Adjusting Procedures
030-159-701	3	Timers — KS-16329, L1 and L2 — Requirements and Adjusting Procedures	030-331-701	4	Registers — 14 Type — Line Message — Requirements
030-159-801	2	Timers — KS-16329, L1 and L2 — Piece-Part Data and Replacement Procedures	030-331-702	4	14-Type Traffic and Plant Registers — Requirements and Adjusting Procedures
030-170-701	1	KS-5464 Call Timing Switch — Requirements and Adjusting Procedures	030-331-801	3	14-Type Registers — Piece-Part Data and Replacement Procedures
030-176-701	2	Stromberg Time Stamp — Requirements and Adjusting Procedures	030-332-501	2	Traffic Register 100-Operation Tests — Using Message Register Test Set SD-30490-01 or ES-360006
			030-332-502	1	Traffic Register Tests — Using Test Set SD-32150-01
<b>030-3</b>		<b>CAMERAS, COUNTERS, PHOTO PROCESSORS, REGISTERS, TAPE PRINTERS, AND TICKETERS</b>			
030-300-301	2	Photographing Message Registers — Using Electrically Operated KS-7703 and KS-8320 Cameras	Add030-333-701	1	
			030-333-701	1	Line-Message Registers — 15 Type — Requirements
030-300-701	2	Message Register Cameras KS-7703 and KS-8320 — Requirements and Adjusting Procedures	030-340-701	2	Bunnell Ink Writing Register — (Pen Register) — Requirements and Adjusting Procedures

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030-342-301	2	KS-19717 Tape Printer — Operating Procedures	Add030-705-804	1	
030-342-701	1	KS-19717 Tape Printer — Requirements and Adjusting Procedures	030-705-804	6	197- and 198-Type Switches — Cords, Cord Holders, Commutators, Wiper Springs, and Parts Associated with the Coverplate — Piece-Part Data and Replacement Procedures
030-342-801	1	KS-19717 Tape Printer — 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	Add030-705-806	1	
Add030-360-801	1		030-705-806	9	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
<b>030-7 SELECTOR MULTIPLE DESIGNATION CARDS, SWITCHES</b>					
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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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030-705-702	9	197- and 198-Type Switches — Rotary, Vertical and Release Mechanisms — Requirements and Adjusting Procedures	030-712-801	3	Nos. 216A and 217A Switches — Piece-Part Data and Replacement Procedures
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030-705-703	9	197- and 198-Type Switches — Contact Spring Assemblies — Requirement and Adjusting Procedures	030-715-701	7	Switches — 300, 301, 302 and 303 Types — Requirements and Adjusting Procedures
● Add030-705-704	2		030-715-801	5	Switches — 300, 301, 302, and 303 Types — Piece-Part Data and Replacement Procedures
030-705-704	8	197- and 198- Type Switches — Banks, Commutators, Wipers, Jack Springs and Switch Operation — Requirements and Adjusting Procedures	030-717-701	6	Switches — 304, 305, 306, 307, 308, 314, 315, and 318 Types — Requirements and Adjusting Procedures
030-705-706	11	Switches — 197- and 198-Types — Lubrication — Requirements and Procedures	030-717-801	5	Switches — 304-, 305-, 306-, 307-, 308-, 314-, 315-, and 318-Type — Piece-Part Data and Replacement Procedures
030-705-711	2	Side Switch — (Part of Earlier 197-Type Switches) — Requirements and Adjusting Procedures	Add030-720-701	1	
030-705-801	4	197- and 198-Type Switches — Associated Banks and Commutators — Piece-Part Data and Replacement Procedures	030-720-701	8	Switches — 324, 325, 328, 334, and 338 Types — Requirements and Adjusting Procedures
030-705-802	6	197- and 198-Type Switches — Parts Mounted Above Cover Plate Except Pawls, Pawl Pins, and Contact Spring Assemblies — Piece-Part Data and Replacement Procedures	Add030-720-801	1	
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<b>Section Number</b>	<b>Issue</b>	<b>Subject</b>	<b>Section Number</b>	<b>Issue</b>	<b>Subject</b>
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030-740-701	7	Knife Switches — Requirements and Adjusting Procedures			
030-741-701	3	Palmer Master Switches — Contactor Type — Requirements and Adjusting Procedures			
030-741-801	1	Palmer Master Switches — Contactor Type — Piece-Part Data and Replacement 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
030-742-701	2	Emergency Lighting Relay Switches — KS-5189, KS5189-01, KS-5189-02, and KS-5189-03 — Requirements and Adjusting Procedures	030-766-702	4	Rotary Switch — Automatic Electric Company 25 Point — Light-Duty Type — Requirements and Adjusting Procedures
030-742-801	2	Emergency Lighting Relay Switches — KS-5189, KS-5189-01, KS-5189-02, and KS-5189-03 — Piece-Part Data and Replacement Procedures	030-766-801	3	Automatic Electric Company 25-Point Rotary Switches and Associated Banks — Piece-Part Data and Replacement Procedures
030-743-701	1	Palmer Master Switches — Requirements and Adjusting Procedures	Add030-767-701	1	
030-744-701	9	Manually Operated Rotary Switches	030-767-701	6	Switch per D-159393 and Associated Motor Generator for A3 and A5 Privacy Systems — Requirements and Adjusting Procedures
030-745-701	1	Knife and Rotary Switches — Cleaning and Lubrication	030-780-301	1	Automatic Electric Company's — 25-Ampere and 80-Ampere Automatic Voltage Regulator Switches — Operation
Add030-760-701	1		030-780-701	2	Automatic Electric Company's — 25-Ampere and 80-Ampere Counter EMF Cell Switches — Requirements and Adjusting Procedures
030-760-701	3	4-Type Foot Switches — Requirements and Adjusting Procedures (Condensed Section: 030-970-701)	030-785-701	6	Switch Panels — Single Motor-Driven Type — KS-15610 and KS-15624 — Requirements and Adjusting Procedures
Add030-761-701	1		030-785-801	2	Switch Panels — Single Motor-Driven Type — KS-15610 and KS-15624 — Replacement Parts and Procedures
030-761-701	2	Plunger Type Switches — Primary and Secondary Line Switches and Out Trunk Switches — Requirements and Adjusting Procedures	030-786-701	3	Motor-Driven Switches KS-15847 Type — Requirements and Adjusting Procedures
030-761-801	3	Plunger Type Switches and Banks — Primary and Secondary Line Switches and Out Trunk Switches — Piece-Part Data and Replacement Procedures	Add030-786-801	1	
			030-786-801	3	Motor Driven Switches — KS-15847 Type — Replacement Parts and Procedures
030-762-701	2	Solenoid Type Master Switch	030-787-701	6	Motor-Driven Switches — KS-5502 and KS-15836 Type — Requirements and Adjusting Procedures
030-762-801	2	Solenoid Type Master Switches — Piece-Part Data and Replacement Procedures	030-787-801	3	Motor-Driven Switches — KS-5502 and KS-15836 Type — Replacement Parts and Procedures
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Section Number	Issue	Subject	Section Number	Issue	Subject
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030-801-501	2	Test for Slipping Drives	030-801-814	4	Procedure for Splitting Springs
030-801-701	6	A and B Types — Requirements and Adjusting Procedures	030-802-701	2	Spring Driven — Requirements and Adjusting Procedures
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030-801-811	1	Repair of Magnet Coils	<b>030-9</b>	<b>CONDENSED SECTIONS</b>	
030-801-812	7	Procedure for Replacing Tips of Worn Contact Springs	030-970-701	1	4-Type Foot Switches — Requirements — (Condensed Section for 030-760-701)