

NUMERICAL INDEX — DIVISION 040

RELAYS

1. GENERAL

- 1.01** This section provides an index of System-issued sections in Division 040.
- 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:
- 040-0 Indexes, Equipment Test Lists and General Relay Information
 - 2 Relays — WECO Codes — Numerical
 - 5 Relays — WECO Codes — Alphabetical
 - 6 Relays — D and KS Specifications
 - 8 Relays — Non-Bell System Codes
 - 9 Condensed Sections

3. INDEX

Section Number	Issue	Subject
040-0 INDEXES, EQUIPMENT TEST LISTS AND GENERAL RELAY INFORMATION		
● 040-000-000	49	Numerical Index — Division 040 — Relays
040-001-011	3	ETL
040-009-501	1	Relays — Pulse Speed and Percent Break — Tests
040-010-711	2	A, B, C, E, F, G, H, J, R, 111, 121, 122, 125, 149, 162, 178, 179, 206, and 215 Types — Requirements by Codes for Maintenance Purposes on Circuits Having No Circuit Requirement Tables
040-011-711	2	Pulse Repeating Relays — Pulsing Requirements TA1 to TF2 — Using Pulse Repeating Test Set J64722A
Add040-011-712	1	
040-011-712	1	Pulse Repeating Relays — Pulsing Requirements TA1 Through TF2 — Using 2B-1 Signaling Test Set SD-56134-02 (J64730B) and Associated Pulse Repeating Adapter Circuit
Add040-012-711	2	
040-012-711	6	Pulse Repeating Relays — Pulse Repeating Requirements — (Local Systems Applications)
Add040-012-712	1	
040-012-712	1	Pulse Repeating Relays — Pulsing Requirements A1 Through J1 — Using 2B-1 Signaling Test Set SD-56134-02 (J64730) and Associated Pulse Repeating Adapter Circuit

Section Number	Issue	Subject
040-013-711	7	Timing Requirements For Application Where Circuit Requirement Tables Do Not Show Timing Requirements
040-014-811	14	Paper Armature Stops, Backstops, and Separators — Application and List of Relays
● 040-015-811	4	Replacement Contact Screw for Relays Having Unusual Contact Conditions
040-016-801	5	Relay Drivers — Method of Attachment to Defective U-, AF-, AJ-, AK-, 286-, 287-, and 288-Type Relays to Maintain Service

040-2 RELAYS — WECO CODES — NUMERICAL

040-210-701	1	21- and 22-Type Telegraph — Requirements and Adjusting Procedures
040-211-701	2	24-A Telegraph — Requirements and Adjusting Procedures
040-212-701	3	25-A Telegraph — Requirements and Adjusting Procedures
040-213-701	3	31-A Telegraph — Requirements and Adjusting Procedures
040-214-701	3	44-Type — Requirements and Adjusting Procedures
040-215-701	2	59, 105, and 108 Types — Requirements and Adjusting Procedures
040-216-701	3	85F- and 85P-Type Relays — Requirements and Adjusting Procedures
040-216-801	2	85F, 85N, and 87 and 186 Types — Piece-Part Data and Replacement Procedures
040-217-701	2	87-Type — Requirements and Adjusting Procedures
040-218-701	3	89, 101 and 172 Types — Requirements and Adjusting Procedures
040-219-701	5	111 (Part of 163), 121, 122, 125, 149, 162, 178 and 179 Types — Requirements and Adjusting Procedures (Condensed Section: 040-900-701)
040-219-801	4	111 (Part of 163), 121, 122, 125, 149, 162, 178 and 179 Types — Piece-Part Data and Replacement Procedures
040-220-701	5	114, 124, 126, 174 and 198 Types — Requirements and Adjusting Procedures
040-220-801	3	114, 124, 126, 174, 196 and 198 Types — Piece-Part Data and Replacement Procedures
040-220-811	2	114, 124, 126, 174 and 198 Types — Method of Attaching Flexible Bonding Straps

SECTION 040-000-000

Section Number	Issue	Subject	Section Number	Issue	Subject
040-221-701	1	118-Type — Requirements and Adjusting Procedures	040-231-801	3	209-Type and Associated 18-Type Connecting Blocks — Piece-Part Data and Replacement Procedures
040-222-701	2	150 Type and No. 218A and Associated 26A Connecting Block — Requirements and Adjusting Procedures	040-231-811	2	209, 215, 228, 255 Types and D-160118 — Remagnetization of Permanent Magnets Using the No. 520A Tool
040-223-701	2	177 and 203 Types — Requirements and Adjusting Procedures	040-232-701	6	215 and 255 Types and Associated 18B Connecting Block — Requirements and Adjusting Procedures
040-224-701	6	186-Type — Requirements and Adjusting Procedures (Condensed Section: 040-901-701)	040-232-801	5	215 and 255 Types and Associated No. 18B Connecting Block — Piece-Part Data and Replacement Procedures
040-225-701	1	189-Type — Requirements and Adjusting Procedures	040-233-701	4	218B and Associated No. 26B Connecting Block — Requirements and Adjusting Procedures
040-226-701	2	190-Type — Requirements and Adjusting Procedures	040-233-801	2	218B — Piece-Part Data and Replacement Procedures
040-227-701	4	196-Type — Requirements and Adjusting Procedures	Add 040-236-701	2	
040-228-701	7	206, 227, 231 and 239 Types — Requirements and Adjusting Procedures (Condensed Section: 040-902-701)	040-236-701	8	221, 222, 223, 224, 225, 247, 248, 251, 252, 305, 307 and 309 Types — Requirements and Adjusting Procedures
040-228-801	4	206, 227, 231 and 239 Types — Piece-Part Data and Replacement Procedures	040-236-711	5	221, 222, 223, 224 and 225 Types — List of Requirements by Relay Codes
040-229-701	6	207 and 213 Types — Requirements and Adjusting Procedures	040-236-801	4	221, 222, 223, 224, 225, 247, 248, 251 and 252 Types — 132- and 133-Type Inductors and Corresponding Automatic Electric Company Apparatus — Piece-Part Data and Replacement Procedures
040-229-801	4	207 and 213 Types — Piece-Part Data and Replacement Procedures	040-240-701	1	Modified 228A Per D-160118 and Associated No. 18F Connecting Block — Requirements and Adjusting Procedures
040-230-701	2	208 and 214 Types — Requirements and Adjusting Procedures	040-240-801	2	Modified No. 228A Per D-160118 and Associated No. 18F Connecting Block — Piece-Part Data and Adjusting Procedures
040-230-801	3	208 and 214 Types — Piece-Part Data and Replacement Procedures	040-241-701	3	229, 230 and 232 Types — Requirements and Adjusting Procedures
040-231-501	2	Polar — 209, 215, 228A, Modified 228A (D-160118) 255A and Similar Demountable Types — Tests and Inspections	040-241-801	2	229, 230 and 232 Types — Piece-Part Data and Replacement Procedures
040-231-701	5	209-Type and Associated 18-Type Connecting Blocks — Requirements and Adjusting Procedures	040-242-701	2	235-Type — Requirements and Adjusting Procedures
040-231-711	6	Nos. 209FA, 209FB, 209FC, 209FG, 209FH, 209FJ, 215A, 215H, 228A, 255A and Modified No. 228A Per D-160118 Using the No. 111A1 or No. 111A2 Relay Test Panel — Requirements and Adjusting Procedures	040-243-701	1	236-Type (D-87799) — Requirements and Adjusting Procedures
040-231-712	1	Polar — 209-FA, 215-A and 288-A Using the 2-A Relay Test Table — Requirements and Adjusting Procedures	Add 040-247-701	1	
040-231-713	2	Nos. 209FA and 209FD Using Test Circuit Per SD-90411-01 — Requirements and Adjusting Procedures	040-247-701	5	245, 254, 263 and 264 Types — Requirements and Adjusting Procedures
040-231-716	3	209FB, 209FC, 209FH, 209FJ, 215A, 215H and 255A Using 116A1 Relay Test Panel — Requirements and Adjusting Procedures	040-247-801	5	245, 254, 263 and 264 Types — Piece-Part Data and Replacement Procedures
040-231-719	3	209FF, 209FK, 209FL and 209FM Using Test Circuit SD-96121-01 or SD-25274-01 — Requirements and Adjusting Procedures	040-250-701	7	253-Type — Requirements and Adjusting Procedures (Condensed Section 040-903-701)
			040-254-701	9	Sensitive Types — Western Electric 260 and 261 Types, KS Types, Weston Models 30, 534, 546, 730 and 1091, Bethlehem Model 1026 — Requirements and Adjusting Procedures

Section Number	Issue	Subject	Section Number	Issue	Subject
Add040-256-701	1		Add040-502-701	1	
040-256-701	4	266-Type Relays — Requirements and Adjusting Procedures	040-502-701	8	AF, AG, and AJ Types — (Wire Spring Types) — Requirements and Adjusting Procedures (For Condensed Section, See 040-930-701)
040-257-701	3	267 Type, D-99739 and D-175787 — Requirements and Adjusting Procedures	040-502-801	6	AF, AG and AJ Type — Piece-Part Data and Replacement Procedures
040-257-801	2	267 Type, D-99739 and D-175787 — Piece-Part Data and Replacement Procedures	Add040-504-701	1	
040-258-701	2	268-Type — Requirements and Adjusting Procedures	040-504-701	5	AK Type — Requirements and Adjusting Procedures — (For Condensed Section, See 040-931-701)
040-258-801	2	268-Type — Piece-Part Data and Replacement Procedures	040-504-801	7	AK-Type — Piece-Part Data and Replacement Procedures
040-260-701	5	271, 282 and 310 Types — Requirements and Adjusting Procedures	Add040-505-501	1	
040-263-501	9	275, 276, 291, 292, 301, 303, 316, 320, and 321 Types — Tests Using Test Sets SD-95439-01 (J94725A)	040-505-501	1	AL- and AM-Types — (Magnetic Latching Wire-Spring) — Timing and Latching Force Tests Using J94735A Test Set
040-263-701	9	Mercury Contact — Plug-In Relays — Requirements	Add040-505-701	2	
040-267-701	5	280-Type Relays — Requirements and Adjusting Procedures	040-505-701	1	AL and AM Types — (Magnetic Latching Types) — Requirements and Adjusting Procedures
040-267-711	2	280-Type — Replacement of 206 and 239 Type Relays	Add040-505-801	1	
040-267-801	5	280-Type Relays — Piece-Part Data and Replacement Procedures	040-505-801	1	AL and AM Types — (Magnetic Latching Wire Spring) — Piece-Part Data and Replacement Procedures
040-272-701	5	286-, 287-, and 288-Types — Requirements and Adjusting Procedures	040-506-701	7	B and G Types — Requirements and Adjusting Procedures (Condensed Section: 040-932-701)
040-272-801	5	286, 287, and 288 Types — Piece-Part Data and Replacement Procedures	040-506-801	3	B-, C-, G- and J-Type — Piece-Part Data and Replacement Procedures
040-273-711	2	287- and 288-Type — Replacement of 245-, 254-, 263- and 264-Type Relays — Requirements and Adjusting Procedures	040-507-701	2	BF-, BG-, BJ-, and BL-Types — (Miniature Wire-Spring Types) — Requirements and Adjusting Procedures
040-275-101	3	Dry-Reed-Type — Descriptive Information	040-507-801	2	BF-, BG-, BJ- and BL-Types — (Miniature Wire-Spring Types) — Piece Part Data and Replacement Procedures
040-275-301	2	Dry-Reed-Type — Precautions to Be Observed When Testing	040-508-701	1	C-Type — Requirements and Adjusting Procedures
040-275-811	2	Dry-Reed-Type — 289, 290, 293, 295, and 318 Types — Methods of Removing and Mounting	040-510-701	8	E, EA, F, H, R, and T Types — Requirements and Adjusting Procedures — (For Condensed Section See 040-933-701)
040-276-801	3	Dry-Reed-Type — 302-Type — Piece-Part Data and Replacement Procedures	040-512-701	8	J-Type — Requirements and Adjusting Procedures (Condensed Section: 040-934-701)
040-277-801	2	Flexible Stop Springs for Gravity Type Relays	040-514-701	5	L, N and S Types — Requirements and Adjusting Procedures (Condensed Section: 040-935-701)
			040-514-801	4	L, N and S Types — Piece-Part Data and Replacement Procedures
040-5 RELAYS — WECO CODES — ALPHABETICAL			040-516-701	3	M-Type — Requirements and Adjusting Procedures (Condensed Section: 040-936-701)
040-500-701	3	A and AB Types — Requirements and Adjusting Procedures	040-516-811	1	M-Type — Application of W.E. Lubricating Compound No. 3
040-500-801	3	A, AB, E, EA, F, H, M, R, T, 235, and 236 Types — Piece-Part Data and Replacement Procedures	040-518-501	1	Locating FA- and FB- Relay Contacts Likely to Cause Transmission Noise Similar to Banjo Tones — Trunk Link and Connector Circuits — No. 5 Crossbar Offices
040-502-101	2	AF-, AG-, and AJ-Types — (Wire Spring Type) — Description			

SECTION 040-000-000

Section Number	Issue	Subject
Add040-518-701	1	
040-518-701	10	U and UA Types — Requirements and Adjusting Procedures (For Condensed Section See 040-937-701)
040-518-801	3	U-, UA-, and 271-Type — Piece-Part Data and Replacement Procedures
040-518-802	2	Method of Mounting Shock Absorbers on U-Type FA- and FB-Relays — Trunk Link and Connector Circuits — No. 5 Crossbar
Add040-520-701	1	
040-520-701	3	UB-Type — Requirements and Adjusting Procedures
040-520-801	2	UB-Type — Piece-Part Data and Replacement Procedures
Add040-522-701	1	
040-522-701	7	Y-Type — Requirements and Adjusting Procedures (For Condensed Section, See 040-937-701)
040-522-801	2	Y and 282-Type — Piece-Part Data and Replacement Procedures

040-6 RELAYS — D AND KS SPECIFICATIONS

040-601-701	2	Thermal per D-80493 for Pneumatic Tube System Blockade Alarm — Requirements and Adjusting Procedures
040-602-701	1	Bellows per D-81211 for Pneumatic Tube System Blockade Alarm — Requirements and Adjusting Procedures
040-603-701	2	D-85083 — Requirements and Adjusting Procedures
040-630-701	3	KS-5323 Cutler-Hammer Automatic Reverse Current Relays — Requirements and Adjusting Procedures
040-630-801	1	Automatic Reverse Current — Replacement Parts and Procedures
040-631-701	1	Cutler-Hammer Automatic Reverse Current Relays — KS-5323-01 and KS-15572 — Requirements and Adjusting Procedures
040-631-801	1	Cutler-Hammer Automatic Reverse Current Relays — KS-5323-01 and KS-15572 — Piece-Part Data and Replacement Procedures
040-632-701	8	Ammeter Relays — Requirements and Adjusting Procedures
040-632-801	1	Ammeter Relays — Piece-Part and Replacement Procedures
040-633-701	8	Control Relays — KS-5350, KS-5451, KS-5728, KS-15503, KS-15598 and KS-15806 Types and KS-5264 Transfer Switches Requirements and Adjusting Procedures
040-634-801	2	Transfer Switches and Control Relays Electrically Operated — Replacement Parts and Procedures
040-635-701	3	KS-5453 Voltage Relays — Direct Current — Solenoid Type — Requirements and Adjusting Procedures

Section Number	Issue	Subject
040-640-701	2	Thermal Time-Delay Relays, KS-5596 — Requirements and Adjusting Procedures
Add040-641-701	1	
040-641-701	1	KS-5639 Double Coil, Multicontact Control Relay — Requirements and Adjusting Procedures
040-641-801	1	KS-5639 Double Coil, Multicontact Control Relay — Piece-Part Data and Replacement Procedures
040-642-701	1	KS-5656 and KS-5658 — Requirements and Adjusting Procedures
040-643-701	2	KS-5721 Mercury Relays — Requirements and Adjusting Procedures
040-644-701	1	KS-5723 Thermal Time-Delay Relays — Requirements and Adjusting Procedures
040-645-701	1	KS-5923 Current or Voltage Relays — Requirements and Adjusting Procedures
040-646-701	3	KS-6902, KS-6903 and KS-7252 — Requirements and Adjusting Procedures
040-647-701	2	KS-7801 through KS-7850 — Requirements and Adjusting Procedures
040-660-701	1	Thermal Relays — KS-13542, KS-13543, KS-13782, KS-13977, KS-13991 and KS-14082 — Requirements and Adjusting Procedures
040-661-701	1	KS-13767 — Requirements and Adjusting Procedures
040-662-701	1	KS-14499 — Requirements and Adjusting Procedures
040-663-701	4	Relays and Flashing Switches — Used in Air Navigation — Obstruction Lighting Circuits — Requirements and Adjusting Procedures
040-664-701	3	Time-Delay Relay, KS-15513 — Westinghouse Electric Corporation — Requirements and Adjusting Procedures
040-664-811	1	Time-Delay Relay, KS-15513 — Westinghouse Electric Corporation — Modification to Provide an Oiling Device
040-665-701	1	Time-Delay Relay, KS-15513 — Eagle Signal Corporation — Requirements and Adjusting Procedures
Add040-666-701	1	
040-666-701	1	KS-15516-Type Control Relays — Requirements and Adjusting Procedures
040-666-801	1	KS-15516-Type — Piece-Part Data and Replacement Procedures
040-667-701	3	Control Relays — KS-15517 and KS-15726 — Requirements and Adjusting Procedures
040-667-801	2	Control Relays — KS-15517 and KS-15726 — Replacement Parts and Procedures

Section Number	Issue	Subject	Section Number	Issue	Subject
040-668-701	3	Thermal Time-Delay Westinghouse Relays, KS-15518 — Requirements and Adjusting Procedures	040-816-701	11	Relays and Relay Sets — Signal Type — Requirements and Adjusting Procedures
Add 040-669-701	1		040-816-801	1	Relay and Relay Sets — Signal Type — Piece-Part Data and Replacement Procedures
040-669-701	1	KS-15519-Type Control Relays — Requirements and Adjusting Procedures	040-821-701	4	Stromberg-Carlson Relays — 194, 207, 228, 244, 245, 253, 257, 263, 285 and 366 Types — Requirements and Adjusting Procedures (Condensed Section: 040-970-701)
040-669-801	2	KS-15519 — Control Relays — Replacement Parts and Procedures	040-826-701	5	SENSITROL Types — Weston Models 705, 723, 813, 1085, and KS Types — Requirements and Adjusting Procedures
040-670-701	1	Control Relays — KS-15528 and KS-15756 — Requirements and Adjusting Procedures			
040-670-801	1	Control Relays — KS-15528 and KS-15756 — Replacement Parts and Procedures			
040-672-701	1	KS-15623 Thermal Overload Relay — Requirements and Adjusting Procedures			
040-673-701	1	KS-15863 Control Relay — Requirements and Adjusting Procedures			
040-674-701	2	Thermal Relays — KS-16022, KS-16195 and KS-16388 Types — Requirements and Adjusting Procedures			
040-675-701	1	KS-16620, List 1 Relay — Requirements and Adjusting Procedures			
040-8 RELAYS — NON-BELL SYSTEM CODES			040-9 CONDENSED SECTIONS		
040-801-701	2	Dashpot Relays — Internally Adjusted and Externally Adjusted — Requirements and Adjusting Procedures	040-900-701	3	111 (Part of 163), 121, 122, 125, 149, 162, 178 and 179 Types — Requirements — (Condensed Section for 040-219-701)
040-801-801	2	Externally Adjusted Dash Pot Relays — Piece-Part Data and Replacement Procedures	040-901-701	3	186-Type — Requirements — (Condensed Section for 040-224-701)
040-802-701	1	High-Low Voltage Relay — Automatic Electric Company — Requirements and Adjusting Procedures	040-902-701	2	206, 227, 231 and 239 Types — Requirements — (Condensed Section for 040-228-701)
040-803-701	2	Relays — Step-by-Step — AECO Horizontal-Type Relays Not Listed — In Section 040-236-711	040-903-701	1	253-Type — Requirements — (Condensed Section for 040-250-701)
Add 040-804-701	1		040-904-701	2	271, 282 and 310 Types — Requirements (Condensed Section for 040-260-701)
040-804-701	1	Automatic Switch Company Relays Having No KS Designations — Requirements and Adjusting Procedures	040-905-701	3	280-Type Relays — Requirements — (Condensed Section for 040-267-701)
040-804-801	1	Automatic Switch Company Relays Having No KS Designations — Replacement Parts and Procedures	040-930-701	4	AF, AG and AJ Types — (Wire-Spring Types) — Requirements — (Condensed Section for 040-502-701)
Add 040-810-701	1		040-931-701	3	AK-Type — (Wire-Spring Type) — Requirements — (Condensed Section for 040-504-701)
040-810-701	2	Struthers-Dunn Relays Having No KS Designations — Requirements and Adjusting Procedures	040-932-701	3	B and G Types — Requirements — (Condensed Section for 040-506-701)
040-810-801	2	Struthers-Dunn Relays Having No KS Designations — Replacement Parts and Procedures	040-933-701	3	E, EA, F, H, R and T Types — Requirements — (Condensed Section for 040-510-701)
Add 040-811-701	1		040-934-701	4	J-Type — Requirements — (Condensed Section for 040-512-701)
040-811-701	1	Relays Having No KS Designations — Ward Leonard Company, Allen-Bradley Company, and Westinghouse Corporation — Requirements and Adjusting Procedures	040-935-701	2	L, N and S Types — Requirements — (Condensed Section for 040-514-701)
			040-936-701	2	M-Type — Requirements — (Condensed Section for 040-516-701)
			040-937-701	7	U, Y, and UA Types — Requirements — (Condensed Section for 040-518-701 and 040-522-701)
			040-970-701	1	Stromberg-Carlson Types — Requirements — (Condensed Section for 040-821-701)