

**NUMERICAL INDEX — DIVISION 169**  
**RECTIFIERS AND FILAMENT SUPPLIES**

**1. GENERAL**

- 1.01** This section provides an index of System-issued sections in Division 169.
- 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; "App" is the abbreviation for Appendix; and "Sup" is the abbreviation for Supplement.

**2. LAYERS**

- 2.01** This division is arranged in layers as follows:
- 169-0 Index and Equipment Test Lists
    - 2 Rectifiers — Located on Customer or Telephone Company Premises
    - 4 Rectifiers — Located on Customer Premises
    - 6) Rectifiers and Filament Supplies — Located on Telephone
    - 7) Company Premises

**3. INDEX AND EQUIPMENT TEST LISTS**

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<b>169-001 Equipment Test Lists (ETL)</b>		
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169-001-013	2	Rectifiers — Located on Customer or Telephone Co. Premises
Sup 169-001-017	2	
169-001-017	2	Located on Telephone Co. Premises
● Sup 169-001-018	2	
169-001-018	2	Located on Telephone Co. Premises
<b>169-2 RECTIFIERS — LOCATED ON CUSTOMER OR TELEPHONE COMPANY PREMISES</b>		
169-205-301	1	Mercury Arc — Operating Methods
169-205-501	2	Mercury Arc — Tests and Inspections
169-210-101	1	Miscellaneous Electron Tube Type — (Formerly Tungar) — Description
169-210-301	6	Miscellaneous Electron Tube Type — (Formerly Tungar) — Operating Methods
169-210-501	1	Miscellaneous Electron Tube Type — (Formerly Tungar) — Tests and Inspections

Section Number	Issue	Subject
169-210-801	8	Electron Tube Type — (Formerly Tungar) — Unregulated and Manually Regulated — Replacement Parts and Procedures
169-215-201	2	Miscellaneous Semiconductor Type — (Metallic) — Installation
169-215-301	8	Miscellaneous Semiconductor Type — Operating Methods
169-215-302	2	Miscellaneous Ferroresonant-Type — Operating Methods
169-215-801	1	Stacks Used in Lorain Products Corporation — T603B1 Power Supply and J86256 Metallic and Semiconductor-Type — Replacement Parts and Procedures
169-230-101	2	Regulated Tube Type — Description
169-230-301	8	J86207A, D, G, H, K, L, M, and U — Operating Methods
169-232-301	5	J86207E and J86207J, L4, L5, and L6 — Operating Methods
169-234-301	4	J86207W — Operating Methods
169-238-301	2	J86231A — Operating Methods
169-245-301	3	J87211 — Operating Methods
169-250-301	1	J87215 — Semiconductor Type — Operating Methods
169-254-301	2	J87228 — Operating Methods
Add 169-255-301	1	
169-255-301	4	J87223 — Operating Methods
169-256-301	2	J87224A — Operating Methods
169-256-801	1	J87224 Rectifier — Error Detector Cards — Piece-Part Data
169-257-301	2	J87229 — Operating Methods
169-260-301	1	J87232A — 24 Volts, 30 Amperes — Operating Methods
169-261-301	1	J87233A — 48 Volts, 30 Amperes — Operating Methods
169-262-301	5	Rectifiers and Charge-Failure Alarm Relays — KS-15661 Type — Operating Methods
169-263-301	1	J87320A — Operating Methods
169-265-301	2	KS-15678 Type — Operating Methods
169-271-301	2	KS-19231 L1 and L2 — Operating Methods

**SECTION 169-000-000**

<b>Section Number</b>	<b>Issue</b>	<b>Subject</b>	<b>Section Number</b>	<b>Issue</b>	<b>Subject</b>
<b>169-4 RECTIFIERS — LOCATED ON CUSTOMER PREMISES</b>			169-613-301	9	J86240A and J86240B — Operating Methods
169-429-301	3	J86281A — Operating Methods	169-614-301	2	J86241 — Operating Methods
169-430-100	2	J87202A	169-615-301	2	J86242 — Operating Methods
169-431-301	1	J87242A — Operating Methods	169-616-301	2	J86243A — Operating Methods
169-432-301	1	J87243A — Operating Methods	169-617-301	6	J86244A — Operating Methods
169-433-301	1	J87244A — Operating Methods	169-618-301	4	J86249A, B, and C Rectifiers and J86249E, L2 Relay Output Control — Operating Methods
169-445-301	1	KS-5663, L8, L9, and L10 — Operating Methods	169-618-303	4	J86249A, B, and C Rectifiers and J86249E L1 Electronic Control — Operating Methods
169-465-301	3	KS-15668 L1, L2, and L3 — Operating Methods	169-618-305	3	J86249A, B, and C Rectifiers and J86249E L3 Electronic Control — Operating Methods
169-466-301	1	(Battery Charging) — KS-19921 L1 — Operating Methods	169-620-301	2	J86263A, 48-Volt and J86263B, 24-Volt — Regulated Metallic Type — 30 Amperes — Operating Methods
169-467-301	1	KS-20121 L1 and L2 Rectifiers Operating Methods	169-621-101	1	J86264A — Metallic Type — Manual Regulation — Single-Cell Charger — 210 Amperes — Description
169-468-301	1	J87342A — Operating Methods	169-621-301	4	J86264A and KS-15687 L1, L2, L3, and L4 (Single-Cell Chargers) — Operating Methods
<b>169-6) RECTIFIERS AND FILAMENT SUPPLIES — LOCATED ON</b>			169-622-301	5	J86266A — Operating Methods
<b>169-7) TELEPHONE COMPANY PREMISES</b>			169-623-301	4	J86273 — 48 Volts, 200 Amperes — Current-Regulated Output Control — Operating Methods
169-602-301	1	X-61756A-2 — Tube Type — Automatic Regulation — Operating Methods	169-623-306	4	J86273 — 48 Volts, 200 Amperes — Voltage-Regulated Output Control — Operating Methods
169-603-302	5	J86207B, J86207R, J86207T and J86216A — Operating Methods	169-624-301	1	J86277A — Metallic Type — Manual Regulation — Operating Methods
169-603-303	7	J86207C and J86207F — Operating Methods	169-624-302	1	J86277B — Metallic Type — Manual Regulation — Operating Methods
169-603-319	6	J86207P and J86207S — Operating Methods	169-625-301	3	J86278A — Semiconductor Type — Manually Regulated — Operating Methods
169-603-816	2	Modifications on J86207P, J86207S, J86263A, and J86263B	169-625-302	2	J86278B — Semiconductor Type — Manually Regulated — Operating Methods
169-604-301	2	J86217A — Operating Methods	169-626-301	3	J86280A — Semiconductor Type — Manually Regulated — Operating Methods
169-605-301	2	J86218A — Operating Methods	169-627-301	1	J86286A — Metallic Type — Manually Regulated — Operating Methods
169-606-301	2	J86219A — Operating Methods	169-628-301	1	J86288A — Metallic Type — Manually Regulated — Operating Methods
169-606-302	4	J86219B L1, L2, and L3 — Operating Methods	169-630-301	4	J86295A — 48 Volts, 200 Amperes Voltage-Regulated Output Control — 23-, 25-, or 27-Cell Operation (Regular and Emergency Cells) — Operating Methods
169-607-301	5	J86221A — Electron Tube Type — Automatic Regulation — Operating Methods	169-630-302	4	J86295A — 48 Volts, 200 Amperes — Voltage-Regulated Output Control — For 23-, or 24-Cell Operation (Regular Cells Only) — Operating Methods
169-608-301	5	J86225 — Operating Methods			
169-609-301	5	J86226 — Operating Methods			
169-610-301	4	J86227 — Operating Methods			
169-611-301	2	J86228A and J86228B — 400 Volts, 0.1 Ampere — Operating Methods			
169-612-301	2	J86239A — Operating Methods			
169-612-303	3	J86239C — Operating Methods			
Add 169-612-811	1				
169-612-811	5	Rectifier Stacks and Rectifier Baskets of KS-5651, KS-5651-01, KS-5651-02, KS-15689, J86239A, J86239B, J86239C, J86249A, J86249B, and J86249C Rectifiers — Replacement Parts and Procedures			

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169-630-303	4	J86295A — 48 Volts, 200 Amperes — Current-Regulated Output Control — For 23-, 25-, or 27-Cell Plant (Regular and Emergency Cells) — Operating Methods	169-682-302	2	Rectifiers — KS-15620 — Ferroresonant Type — Operating Methods
Add 169-631-301	1		169-683-301	1	KS-15655 — Metallic Type — Automatic Regulation — Operating Methods
169-631-301	4	J86296 — 48 Volts, 400 Amperes — Voltage-Regulated Output Control for 23-, 25-, or 27-Cell Plant (Regular and Emergency Cells) — Operating Methods	169-685-301	3	KS-15689 L1 Rectifier and KS-15689 L3 Electronic Control — Operating Methods
169-631-302	4	J86296 — 48 Volts, 400 Amperes — Voltage-Regulated Output Control for 23-Cell Operation (Regular Cells Only) — Operating Methods	169-685-306	1	KS-15689 — Relay-Type Output Control — Operating Methods
169-631-303	4	J86296 — 48 Volts, 400 Amperes — Current-Regulated Output Control for 23-, 25-, or 27-Cell Plant (Regular and Emergency Cells) — Operating Methods	169-686-301	1	KS-15737 — Vibrator Inverter, Regulated — Operating Methods
169-633-301	2	J86298A — Semiconductor Type — Automatic Regulation — Operating Methods	169-687-301	2	KS-15885 Rectifier — Operating Methods
169-635-301	1	J87200A — Semiconductor Type — Manually Regulated — Operating Methods	169-688-301	4	Rectifiers — KS-15894, L1, L2, and L3 — Operating Methods
169-636-301	3	J87201A, L1 and J87201B, L1 — Operating Methods	169-689-301	2	Rectifiers — KS-15898 L1, L2, and L3 — Operating Methods
169-642-301	2	J87207A and J87207B, L1 — Operating Methods	169-692-301	2	KS-15907, L1 (Portable) — KS-15907, L2 (Rack Mounted) — Operating Methods
Add 169-648-301	1		169-696-301	1	KS-15911, L2 and L3 — Operating Methods
169-648-301	4	J87222 — Operating Methods	169-701-301	1	Filament Supply — KS-15915, L1 — Operating Methods
169-649-301	3	J87249A and J87249B — Operating Methods	169-703-301	1	KS-15999 L2 — Operating Methods
169-650-301	2	J87275 Rectifier — Semiconductor-Type — Automatic Regulation — Operating Methods	169-704-301	1	KS-19210, L1 — 24 Volts, 400 Amperes — Operating Methods
169-651-301	1	J87346 Rectifier — Semiconductor-Type — Automatic Regulation — Operating Methods	169-704-312	1	Rectifiers KS-19210 L11 and L12 24 Volts, 400 Amperes Operating Methods
169-660-301	2	KS-5651 and KS-5651-01 — Electronic Control — Operating Methods	169-705-301	1	KS-19210 L2 and L7 — 24 Volts, 400 Amperes — Operating Methods
169-660-302	3	KS-5651 and KS-5651-01 — Relay-Type Output Control — Operating Methods	169-706-301	1	KS-19210, L3 — 24 Volts, 400 Amperes — Operating Methods
169-660-306	2	KS-5651-02 Rectifier Unit — Relay-Type Output Control — Operating Methods	169-707-301	2	KS-19210 L4 and L9 — 24 Volts, 400 Amperes — Operating Methods
169-660-311	1	KS-5651-02 Rectifier Unit — Electronic Control — Operating Methods	169-708-301	1	KS-19211, L1 — 24 Volts, 800 Amperes — Operating Methods
169-661-301	1	KS-5669 — Operating Methods	169-709-301	1	KS-19211 L2 and L7 — 24 Volts, 800 Amperes — Operating Methods
169-662-301	3	KS-5928 L5 and KS-15620 L4 — Operating Methods	169-710-301	1	KS-19211, L3 — 24 Volts, 800 Amperes — Operating Methods
169-663-301	1	KS-5789 — Operating Methods	169-711-301	1	KS-19211 L4 and L9 — 24 Volts, 800 Amperes — Operating Methods
169-680-301	1	KS-15123, List 2 — Operating Methods	169-711-312	1	KS-19211, L11 and L12 — 24 Volts, 800 Amperes — Operating Methods
169-681-301	1	KS-15135 — Automatically Regulated — Metallic Type — 24 Volts, 6 Amperes — Operating Methods	169-712-301	3	KS-19212 L1 and L2 — 24 Volts, 1600 Amperes — Operating Methods
169-682-301	6	KS-15620, L1, L2, L3, L6 and L10 — Operating Methods	169-713-301	2	KS-19212 L3 and L4 — 24 Volts, 1600 Amperes — Operating Methods
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169-716-301	1	KS-19213 L3 — 48 Volts, 800 Amperes — Operating Methods
169-717-301	2	KS-19213 L5 and L9 — 48 Volts, 800 Amperes — Operating Methods
169-718-301	1	KS-19213 L6 and L7 — 48 Volts, 800 Amperes — Operating Methods
169-718-312	2	KS-19213 L11 and L12 — 48 Volts, 800 Amperes — Operating Methods
169-720-301	2	KS-19214 L2 and L5 Voltage-Regulated Output Control — 48 Volts, 800 Amperes — Operating Methods
169-720-501	1	KS-19214 Type — Switch, Fuse Assembly, and Bus Bars — Tests and Inspections
169-721-301	1	KS-19214 L3 and L6 — 48 Volts, 800 Amperes — Operating Methods
169-721-312	1	KS-19214 L11 and L12 — 48 Volts, 800 Amperes — Operating Methods
169-722-301	3	KS-19215 L1 and L2 — 48 Volts, 1600 Amperes — Operating Methods
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169-726-301	1	KS-19356 L1 and L2 — 24 Volts, 1600 Amperes — Operating Methods
169-727-301	1	Rectifiers — KS-19356 L3 and L4 — 24 Volts, 1600 Amperes — Operating Methods
169-727-312	2	KS-19356, L11 and L12 — 24 Volts, 1600 Amperes — Operating Methods
169-728-301	2	KS-19424 L1 and L2 and L3 — 12 Volts, 400 Amperes — Operating Methods
169-729-301	2	KS-19412 (Test Voltage Supply) — Operating Methods
169-730-301	1	KS-19790 L11 and L12 — 48 Volts, 800 Amperes — Operating Methods
169-730-302	1	KS-19791 L11 and L12 — 48 Volts, 800 Amperes — Operating Methods
169-731-301	1	KS-19792 L11 and L12 — 48 Volts, 1600 Amperes — Operating Methods
169-732-301	1	KS-19700 L1 Rectifier — 12-Volt, 400-Ampere — Operating Methods
169-735-301	1	KS-20039 L11 and L12 — Operating Methods
169-736-301	1	KS-20040 L11 and L12 Rectifier — Operating Methods