ALCO-GE 44 TON LOCOMOTIVE
SAMPLE PHYSICAL SCHEMATIC AND AIR BRAKE DIAGRAMS
COMPILED BY PRESTON COOK
FOR THE RAILROAD MUSEUM OF NEW ENGLAND
FROM ALCO-GE SERVICE MANUALS AND PUBLICATIONS
ALCO-GE 44 TON LOCOMOTIVE

TYPICAL STARTING CIRCUIT
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TYPICAL BATTERY CHARGING CIRCUIT
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TYPICAL MOTOR POWER CIRCUIT
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TYPICAL MOTOR SHUNTING CIRCUIT
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TYPICAL GENERATOR FIELD CIRCUIT
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TYPICAL LIGHTING AND AUXILIARY CIRCUIT
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WIRING DIAGRAM SYMBOLS

- Three phase selenium rectifier
- Selenium rectifier used as blocking rectifier
- Capacitor
- Tube resistor
- Rheostat
- Operating coil
- Circuit breaker
- Normally closed bridge type contact or interlock
- Normally open bridge type contact or interlock
- Normally closed finger type contact or interlock
- Normally open finger type contact or interlock
- Shunt field winding
- Commutating field winding
- Snap switch
- Main battery switch
- Throttle contact or engine control switch contact. These contacts are marked to show throttle or engine control switch positions in which they are closed.

WIRING DIAGRAM SYMBOLS AND CONTROL SEQUENCE CHART

This table indicates the position of the armature of field-shunting relays $PSR_1$ and $PSR_2$. The relay contacts are normally closed when the operating coils are de-energized and the armature is open.
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INDEPENDENT AND AUTOMATIC AIR BRAKE HANDLES