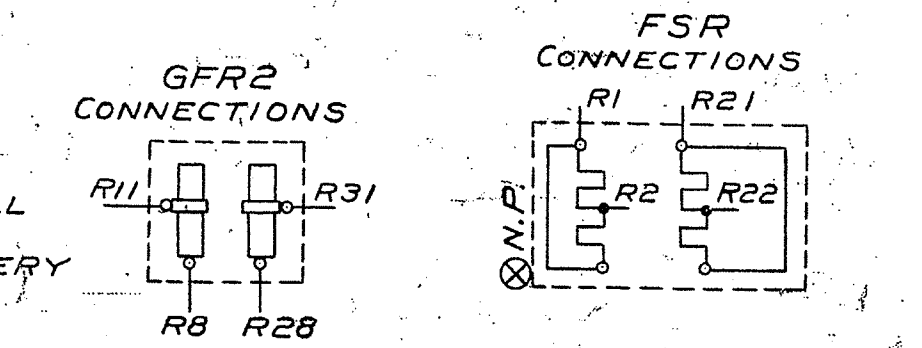
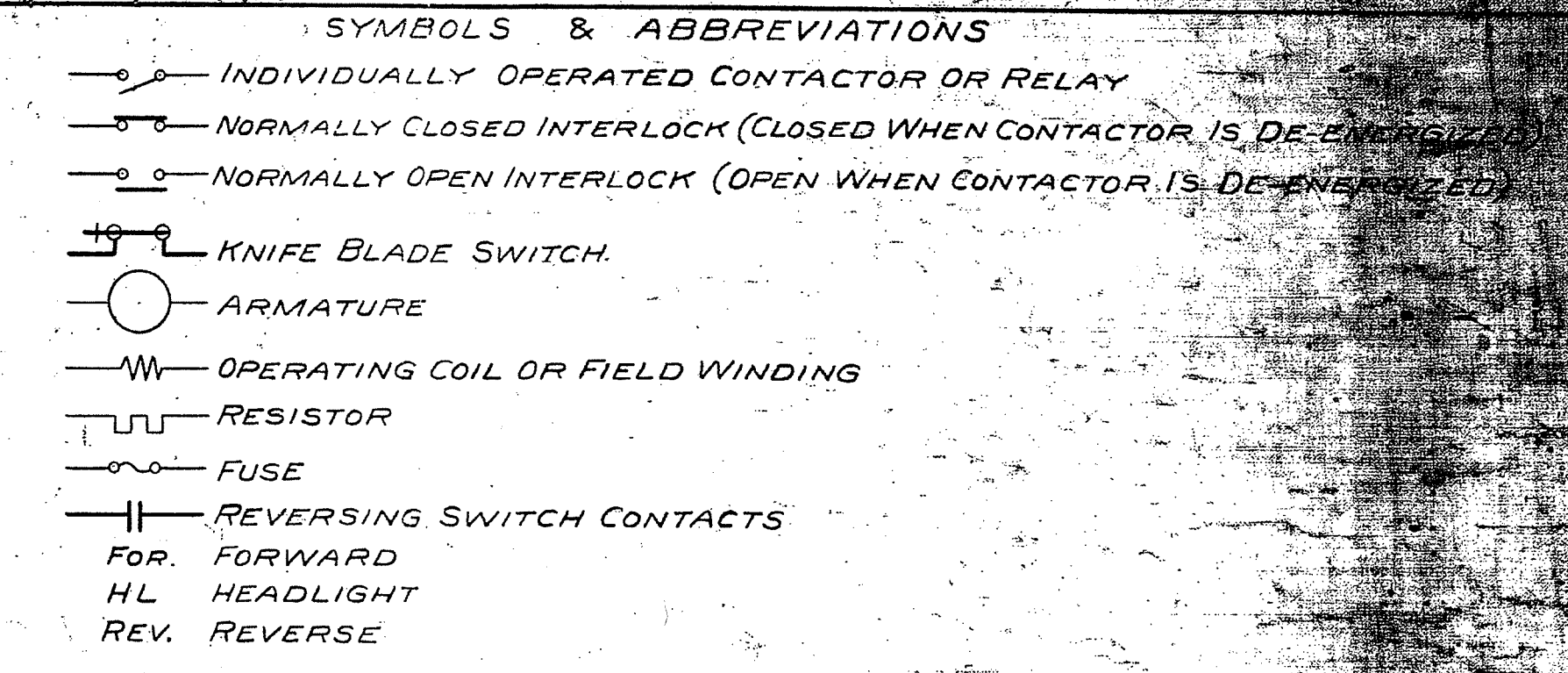
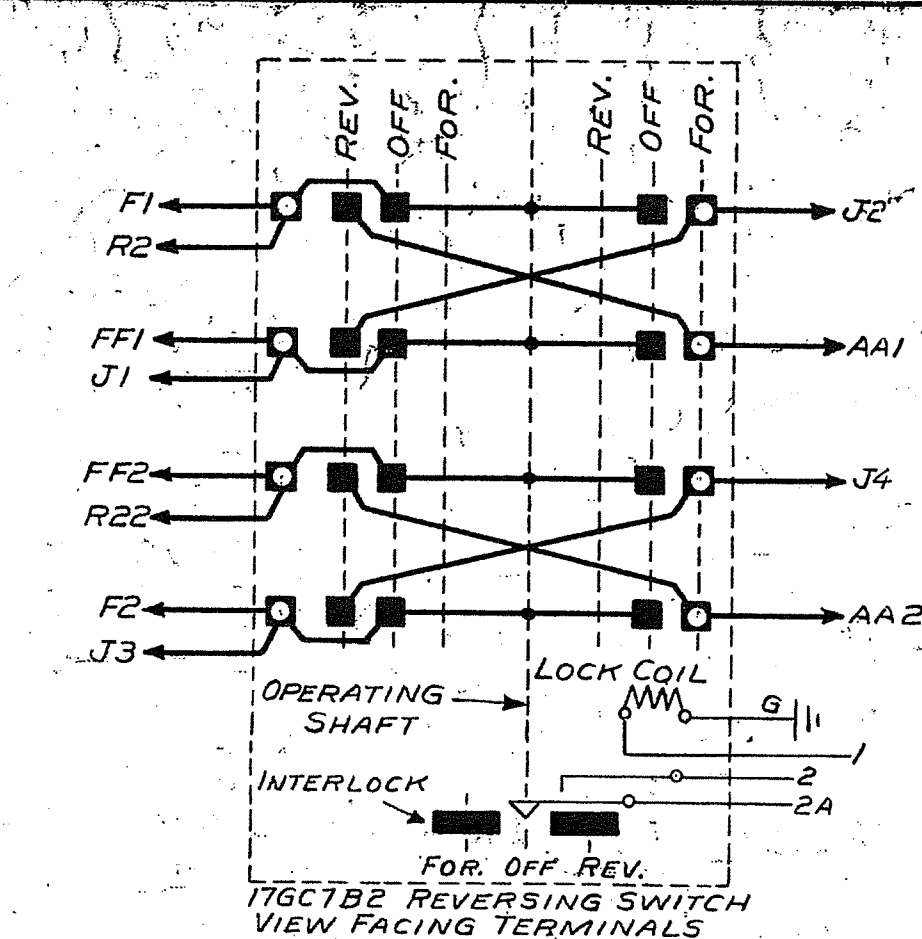
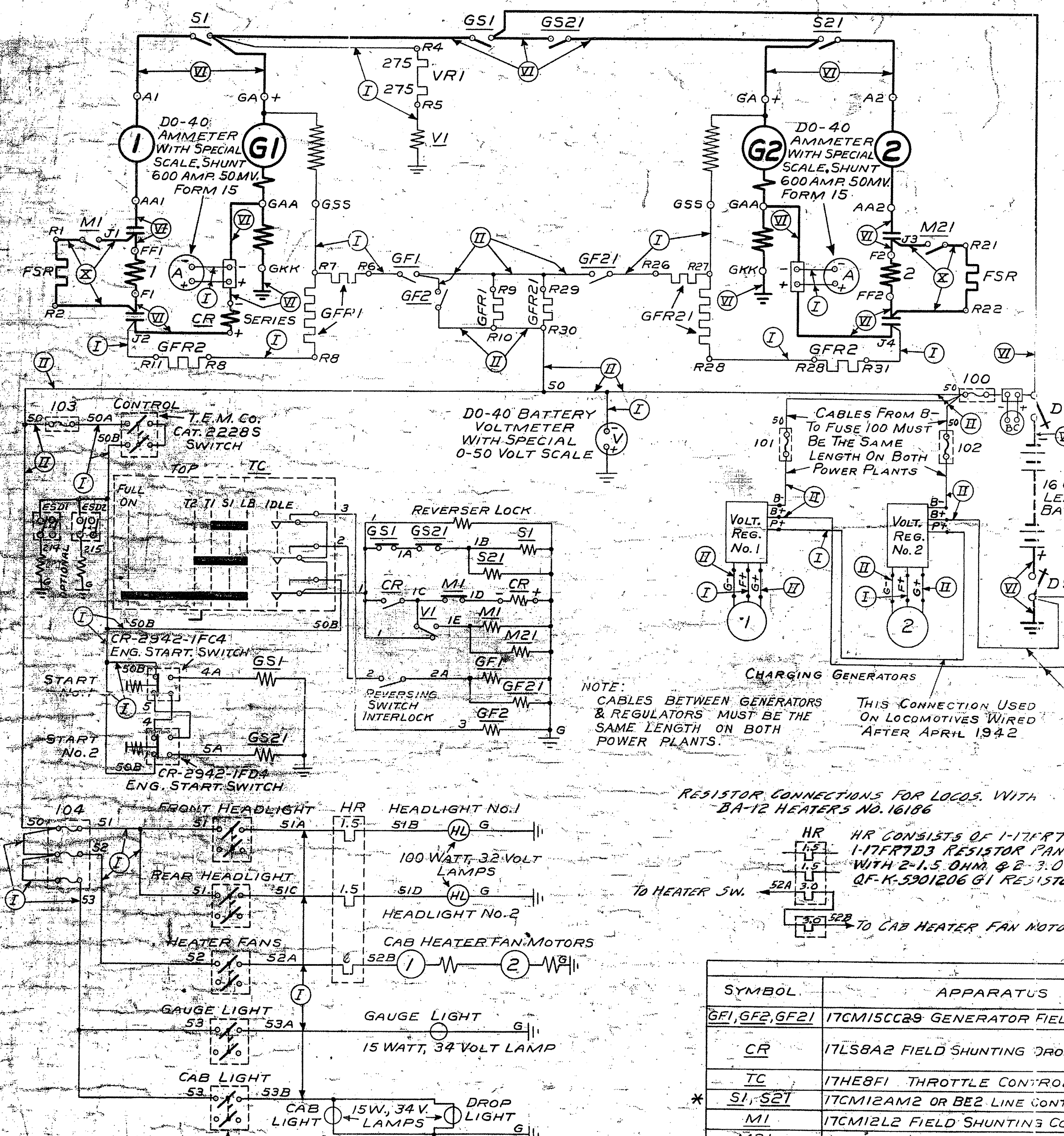




NOTE: CABLES BETWEEN GENERATORS & REGULATORS MUST BE THE SAME LENGTH ON BOTH POWER PLANTS.

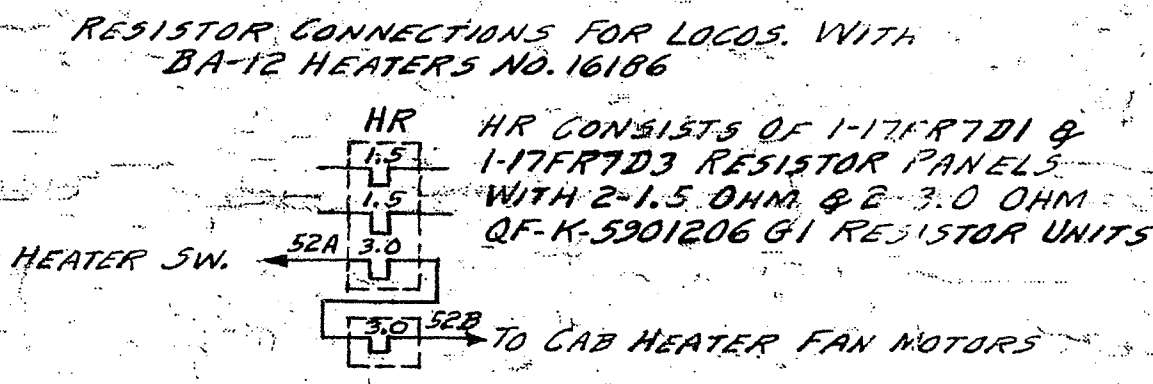
THIS CONNECTION USED ON LOCOMOTIVES WIRED AFTER APRIL 1942

THESE CABLES MUST BE THE SAME LENGTH.

CABLE SIZES				
SYMBOL	CIRCUIT	AWG SIZE	DIAMETERS BARE MAX. OUTSIDE	SPECIFICATION
Ⓜ	MAIN GENERATOR, TRACTION MOTOR, & BATTERY	350/4	.613" .936"	SI-12250
ⓧ	FIELD SHUNTING	225/24	.410" .696"	SI-12250
Ⓜ	BATTERY CHARGING & CONTROL	37/24	.142" .290"	SI-12250
ⓧ	CONTROL & LIGHTS	19/25	.090" .238"	SI-12250

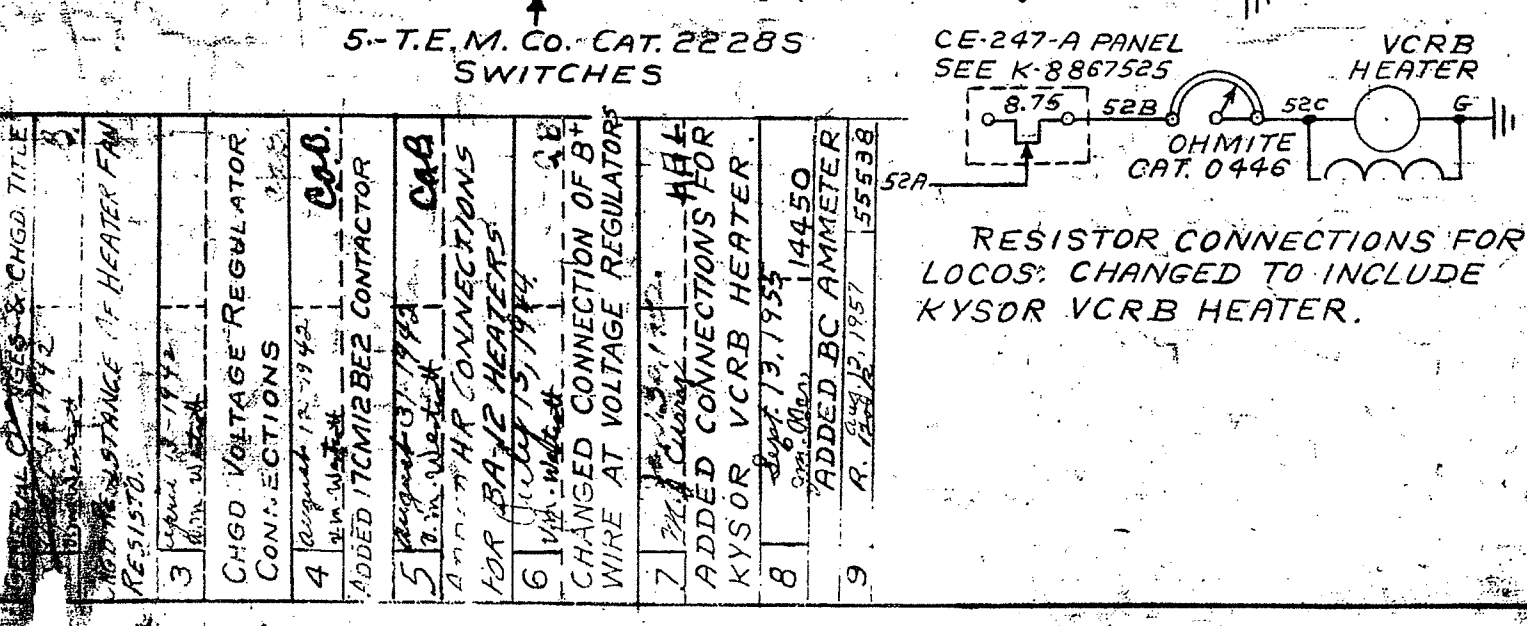
FUSE TABLE				
SYMBOL	APPARATUS	CIRCUIT	VOLTS	AMP.
100	CUTOUT CAT. 36803	BATTERY	250	50
101, 102	CUTOUT CAT. 36802	CHARGING GENERATOR	250	30
103	CUTOUT CAT. 36802	CONTROL	250	15
104	CUTOUT CAT. 34372	HEADLIGHT, GAUGE & CAB LIGHTS, & HEATER FAN MOTOR	250	15

* CUTOUT CAT. 189666 MAY BE USED IN PLACE OF CUTOUT CAT. 36802



APPARATUS TABLE				
SYMBOL	APPARATUS	OPERATING COIL DATA CATALOG NO. RES. AT 25°C.	INTERLOCK	REMARKS
GF1, GF2, GF21	17CM15CC29 GENERATOR FIELD CONTACTORS	2738570	73	
CR	17LS8A2 FIELD SHUNTING DROPOUT RELAY	PICK UP COIL 4739255	71	WITH ENGINES AT FULL THROTTLE, RELAY SHOULD DROP OUT, OPENING M1 & M21, AT 18 TO 20 MPH (APPROX. AT 220-230 A. IN SERIES COIL ALONE)
TC	17HE8F1 THROTTLE CONTROL SWITCH			
S1, S21	17CM12AM2 OR BE2 LINE CONTACTORS	2738575	38.6	
M1	17CM12L2 FIELD SHUNTING CONTACTOR	2738575	38.6	17AF14H1
M21	17CM12L2 FIELD SHUNTING CONTACTOR	2738575	38.6	
GS1, GS21	17CM12J15 ENGINE STARTING CONTACTORS	2738770	.64	17AF14H1
VI	DB-1687-C4 FIELD SHUNTING CONTROL RELAY	2738093	9.2	PICK UP 280-290 VOLTS DROPOUT 165-175 VOLTS
DS	DPST-200 AMP. 250 V. BATTERY SWITCH, T.E.M. CO. CAT. 3806 WITH EBONY ASBESTOS BASE & KNOB HANDLE			
GFR1, GFR21	17FR1A10 GENERATOR FIELD RESISTOR PANELS. CONNECTIONS PER DIAGRAM K-67241C1			
GFR2	CE-247-B1 RESISTOR PANEL WITH 2-CAT. 2793982G11 RESISTOR UNITS			
FSR	17EW102B2 FIELD SHUNTING RESISTOR PER DIAGRAM K-6724628			
VR1	17FR1B2 RESISTOR PANEL WITH 2-QFK-2673251, 275 OHM RESISTOR UNITS			
HR	17FR7D3 CONTROL RESISTOR PANEL WITH 2-QFK-5901206-GL, 1.5 OHM & 1-QFK-5901206-SI, 6.5 OHM RES. UNITS			
BC	ATODN BATTERY CHARGING AMMETER WITH FORM 15, 80 AMP 50 MV SHUNT			

* 17CM12B2 CONTACTORS USED ON LOCO. 15720 & ALL LATER LOCOMOTIVES.



FOR GF 1503-S1 OR GF 1503-X1 MAIN GENERATOR CONNECTIONS (G1 & G2), SEE K-3726375

TYPE M, SINGLE END, SINGLE UNIT

FOR 45 TON LOCOMOTIVE WITH 2 CUMMINS DIESEL ENGINES, 2 GF 1503 GENERATORS, GE733-C2 MOTORS (CONNECTION DIAGRAM)

FIRST MADE FOR: STOCK (MO-290-105)

BEGUN BY: [Name] TRACED BY: [Name] RE: [Name]

FINISHED BY: [Name] INSPECTED BY: [Name]

GENERAL ELECTRIC CO. ERIE WORKS

PP-4749780