



SYMBOLS & ABBREVIATIONS

- INDIVIDUALLY OPERATED CONTACTOR OR RELAY
- NORMALLY CLOSED INTERLOCK (CLOSED WHEN CONTACTOR IS DE-ENERGIZED)
- NORMALLY OPEN INTERLOCK (OPEN WHEN CONTACTOR IS DE-ENERGIZED)
- KNIFE BLADE SWITCH
- ARMATURE
- OPERATING COIL OR FIELD WINDING
- RESISTOR
- FUSE
- REVERSING SWITCH CONTACTS
- FOR. FORWARD
- HL. HEADLIGHT
- REV. REVERSE

CABLE SIZES				
SYMBOL	CIRCUIT	AWG SIZE	DIAMETERS BARE MAX. OUTSIDE	SPECIFICATION
(V)	MAIN GENERATOR, TRACTION MOTOR, & BATTERY	450/24	.578" .897"	SI-12250
(X)	FIELD SHUNTING	175/24	.360" .648"	SI-12250
(U)	BATTERY CHARGING & CONTROL	37/24	.142" .290"	SI-12250
(I)	CONTROL & LIGHTS	19/27	.071" .224"	SI-12250
(U)	ENGINE STARTING & FIELD SHUNTING	1" x 1/4" BUS BAR		

FUSE TABLE				
SYMBOL	APPARATUS	CIRCUIT	VOLTS	AMPS
100	CUTOUT CAT. 36803	BATTERY	250	50
101	CUTOUT CAT. 34372	CHARGING GENERATORS	250	25
102	CUTOUT CAT. 34372	CONTROL	250	10
		LIGHTS & HEATER FAN MOTOR	250	10

APPARATUS TABLE				
SYMBOL	APPARATUS	CATALOG No.	RES. AT 25°C	INTERLOCK
GF1, GF2, GF21	17CM15C29 GENERATOR FIELD CONTACTORS	2738570	73	
CR	17LS8A2 FIELD SHUNTING DROPOUT RELAY	PICK UP COIL 4739253	71	
TC	17HEB1 THROTTLE CONTROL SWITCH			
S1, S21	17CM12B2 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	6.4	17AF14H1
V	DB-1687-C4 FIELD SHUNTING CONTROL RELAY	2738093	9.2	
H	17GCTB2 REVERSING SWITCH	LOCK COIL 2738663	117	
DS	DPST-200 AMP 250V. BATTERY SWITCH, T.E.M. Co. CAT. 3806 WITH EBONY ASBESTOS BASE & KNOB HANDLE			
GF1, GF21	17FR22A1 GENERATOR FIELD RESISTOR PANELS. CONNECTIONS PER K-6724793.			
HR	17FR21A5 CONTROL RESISTOR PANEL WITH 2-1.5 OHM & 3-3.0 OHM QF-K-5901206 G1 RESISTOR UNITS.			
FSR	17EW102A2 FIELD SHUNTING RESISTOR PER DIAGRAM K-6724759			
VR	17FR21B2 RESISTOR PANEL WITH 2-QF-K-2673251, 275 OHM RESISTOR UNITS			
EGR	CE-247-A ELECTRIC GAUGE RESISTOR PANEL WITH 1-23.3 OHM CAT. 2793985625 UNIT WITH TAP AT 5.8 OHMS			

FOR GT-1503-X1 MAIN GENERATOR CONNECTIONS (G1 & G2), SEE K-6726375.

TYPE M, SINGLE END, SINGLE UNIT CONTROL
FOR 45 TON LOCOMOTIVE WITH 2-150 H.P. DIESEL ENGINES,
2-GT-1503-X1 GENERATORS & 2-GE733-C2 MOTORS
(CONNECTION DIAGRAM)

FIRST MADE FOR: STOCK (MO-292-196) 8166B
BEGUN BY: NEWARK MAY 1942 TRACED BY: NEWARK MAY 3, 33
FINISHED BY: NEWARK MAY 1943 INSPECTED BY: NEWARK MAY 1943
GENERAL ELECTRIC CO. ERIC. WORKS PP-6742196 8166B1

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