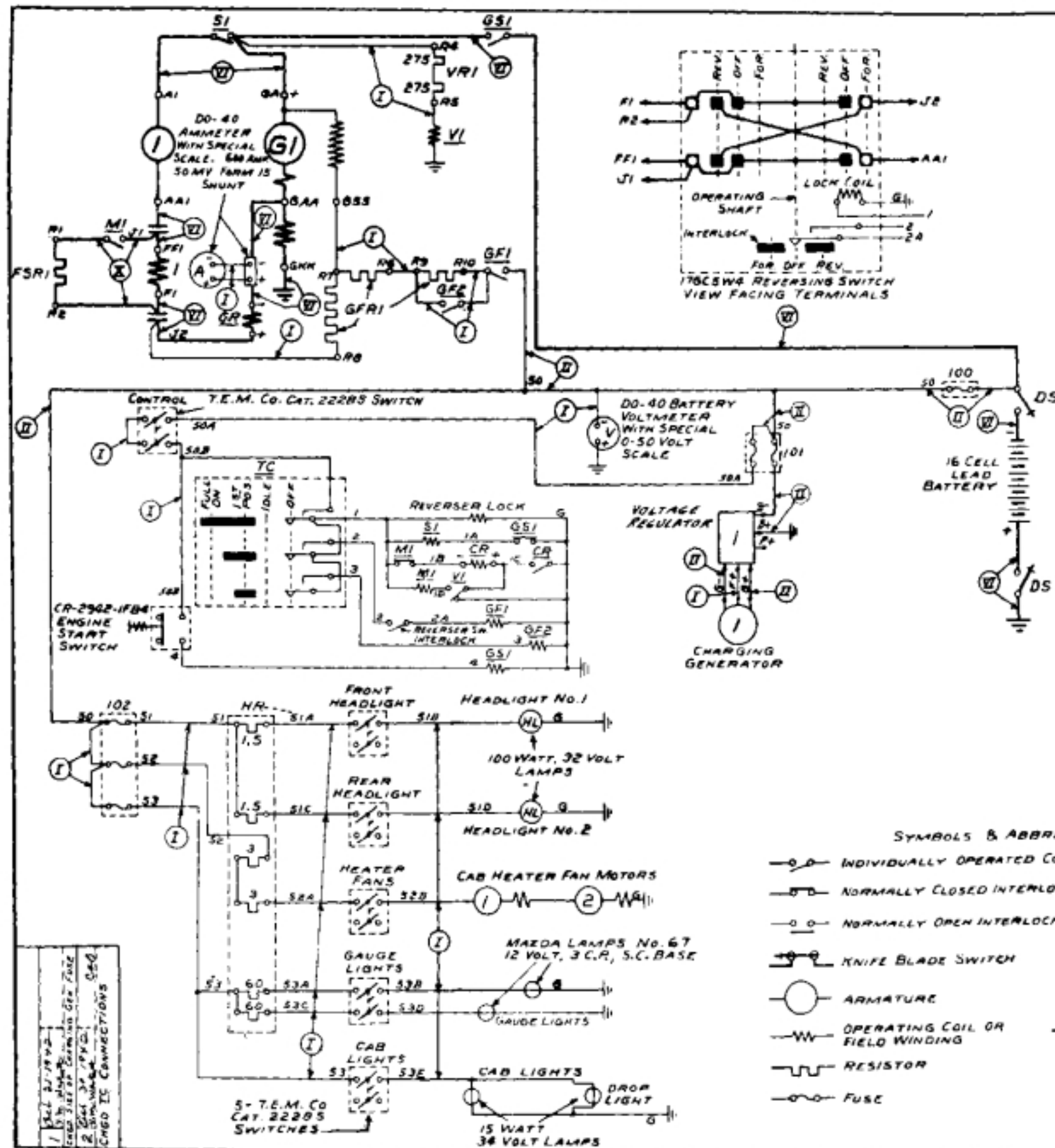




CABLE SIZES					
SYMBOL	CIRCUIT	AWG SIZE	DIAMETERS		SPECIFICATION
			BARE	MAX. OUTSIDE	
VI	MAIN GENERATOR, TRACTION MOTOR, & ENG. STARTING	450/24	.578"	.697"	SI-12250
IX	FIELD SHUNTING	175/24	.360"	.648"	SI-12250
II	BATTERY CHARGING & CONTROL	37/24	.142"	.290"	SI-12250
I	CONTROL & LIGHTS	19/25	.090"	.238"	SI-12250

APPARATUS TABLE				
SYMBOL	APPARATUS	OPERATING COIL DATA		REMARKS
		CATALOG NO.	RES AT 25°C	
GFI, GFR	ITCMISCC29 GENERATOR FIELD CONTACTORS	2738570	73	
CR	ITLSBA2 FIELD CONTROL RELAY	PICK UP COIL 4739255	71	WITH ENGINE AT FULL THROTTLE, RELAY SHOULD DROP OUT, OPENING MI, AT 18 TO 20 MPN (APPROX. AT 220-230 A. IN SERIES COIL ALONG)
TC	ITHEBC1 THROTTLE CONTROL SWITCH			
SI	ITCM12B2 LINE CONTACTOR	2738575	38.6	
MI	ITCM12LE FIELD SHUNTING CONTACTOR	2738575	38.6	ITAF14H1
GSI	ITCM12J15 ENGINE STARTING CONTACTOR	2738770	6.4	ITAF14H1
VI	DB-1687-04 FIELD SHUNTING CONTROL RELAY	2738093	9.2	PICK UP 200-230 VOLTS DROP OUT 16.5-175 VOLTS
	ITGCSW4 REVERSING SWITCH	LOCK COIL 2738669	117	
DS	DPST-20 AMP 250V BATTERY SWITCH, T.E.M. CO. CAT. 3806 WITH EBONY ASBESTOS BASE & KNOB HANDLE			
HR	ITFR21AB CONTROL RESISTOR PANEL WITH 2-1.5 OHM, 2-3.0 OHM, & 2-60 OHM QF-K-590/206-G1 RESISTOR UNITS			
FSRI	ITEW101A2 FIELD SHUNTING RESISTOR PER DIAGRAM K-6724629			
VR1	ITFR18B2 RESISTOR PANEL WITH 2-QFK-2673251, 275 OHM RESISTOR UNITS			
GFRI	ITFR22A1 GENERATOR FIELD RESISTOR PANEL, CONNECTED PER K-6724793			

FUSE TABLE						
SYMBOL	APPARATUS	CIRCUIT	VOLTS	AMPS	CATALOG NO.	QUANTITY
100	CUTOUT CAT 36803	BATTERY	250	50	GE1470	1
101	CUTOUT CAT 34367	CHARGING GENERATOR	250	25	GE1465	1
102	CUTOUT CAT 34372	CONTROL	250	10	GE1461	1
		HEADLIGHT, GAUGE & CAB LIGHTS & HEATER FAN MOTOR	250	10	GE1461	3

- 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
 - NL HEADLIGHT
 - REV REVERSE

FOR GT-1503-S1 OR GT-1503-X1
MAIN GENERATOR CONNECTIONS (G1) SEE K-6726375

TYPE M, SINGLE END, SINGLE UNIT CONTROL
FOR 25 TON LOCOMOTIVE WITH 1-CUMMINS 150 N.D. DIESEL ENGINE, 1-GT-1503 GENERATOR, & 1-GE733-CR MOTOR (CONNECTION DIAGRAM)

First Made For: STOCK (MO-290-180) 66898

Drawn BY: [Signature] Date: [Date]
Checked BY: [Signature] Date: [Date]
Inspected BY: [Signature] Date: [Date]

GENERAL ELECTRIC WORKS **P-6742153**

RL

Figure 34. Locomotive connection diagram.