

Z3E052 02 S01 1511

CDC Z3E052

Electrical Power Production Journeyman

Supplementary Material for Volume 2

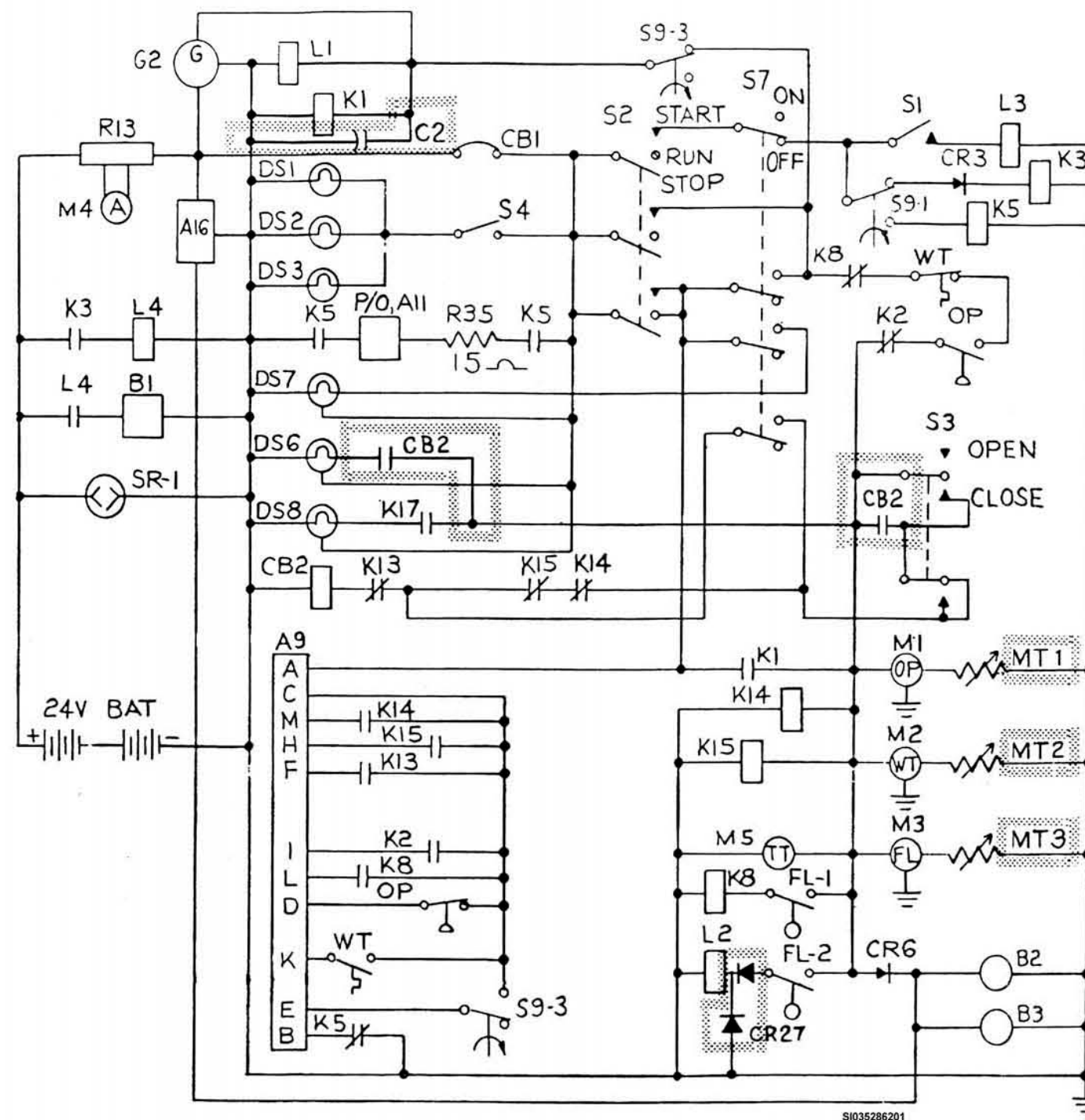
Foldouts 1–2



**Air Force Career Development Academy
The Air University
Air Education and Training Command**

Table of Foldouts

Foldout 1	DC schematic diagram 15 and 30 KW utility generator sets.
Foldout 2	DC troubleshooting diagram.



ASSEMBLIES	
A9	FAULT INDICATOR SYSTEM
A11	STATIC EXCITER
A16	HEATER CONTROL BOX
B1	STARTER MOTOR
B2	FUEL PUMP
B3	FUEL PUMP
C2	CAPACITOR
CIRCUIT BREAKERS	
CB1	D.C. CONTROL
CB2	CONTACTOR, MAIN AC OUTPUT
DIODES	
CR3	START CIRCUIT
CR6	FUEL PUMPS
CR27	RECTIFIER ASSY
LIGHTS	
DS1	PANEL
DS2	PANEL
DS3	PANEL
DS6	INDICATOR, CIRCUIT BREAKER (CONTACTOR)
DS7	PROTECTION BY PASS
DS8	INDICATOR, AIR CLEANER
G2	BATTERY CHARGING ALTERNATOR
RELAYS	
K1	STOP-RUN
K2	OVERVOLTAGE
K3	CRANK
K5	FIELD FLASH
K8	FUEL LEVEL
K13	SHORT CIRCUIT
K14	OVERLOAD
K15	REVERSE POWER
K17	SWITCH, AIR CLEANER RESTRICTION

NOTES:

1. INTERPRET DRAWING PER MIL-STD-100.
2. DIAGRAM APPLIES TO 15 KW AND 30 KW GENERATOR SETS MODEL NUMBERS MEP 004A AND MEP 005A RESPECTIVELY.

SOLENOIDS	
L1	ENGINE FUEL
L2	DAY TANK FUEL
L3	ETHER
L4	STARTER
METERS	
M1	OIL PRESSURE
M2	COOLANT TEMPERATURE
M3	FUEL LEVEL
M4	BATTERY CHARGING
M5	TOTAL TIME
MT1	TRANSDUCER, OIL PRESSURE
MT2	TRANSDUCER, COOLANT TEMP
MT3	TRANSDUCER, FUEL LEVEL
RESISTORS	
R13	SHUNT, INSTRUMENT
R35	FLASH FIELD CURRENT LIMITING
SWITCHES	
FL1	FUEL LEVEL
FL2	FUEL LEVEL
OP	LOW OIL PRESSURE
WT	HIGH COOLANT TEMPERATURE
S1	ENGINE PRIMER
S2	START-RUN-STOP
S3	CONTACTOR
S4	PANEL LIGHTS
S7	BATTLE SHORT
S9	ENGINE SPEED
SR1	SLAVE RECEPTACLE

D.C. SCHEMATIC 15 AND 30 KW, UTILITY GENERATOR SETS

Student Notes

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