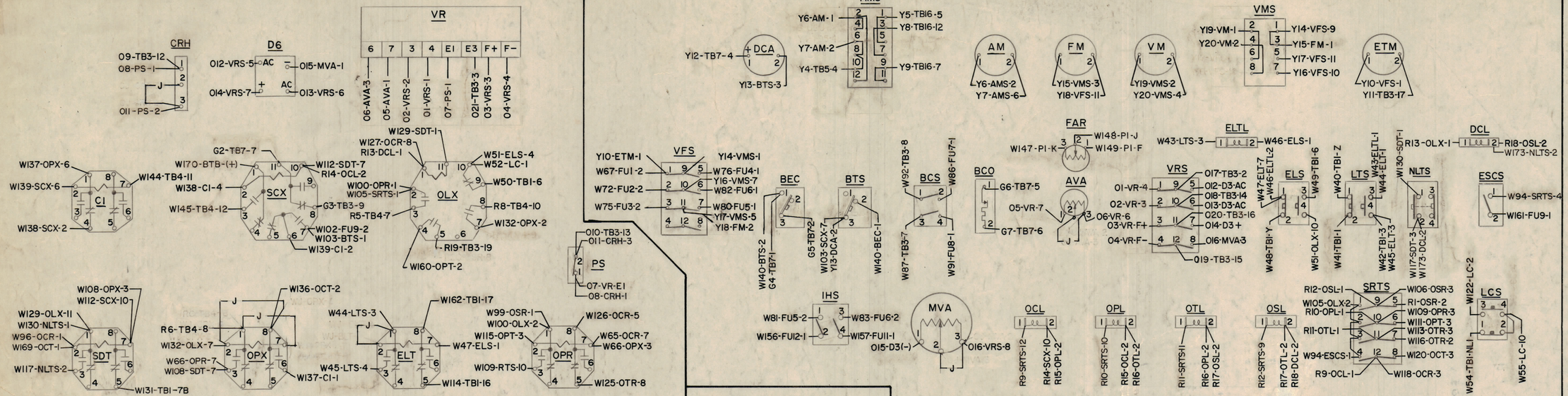
REVISIONS						
ZONE	LTR	DESCRIPTION	DATE	DRAFT	CHK'D	APPD

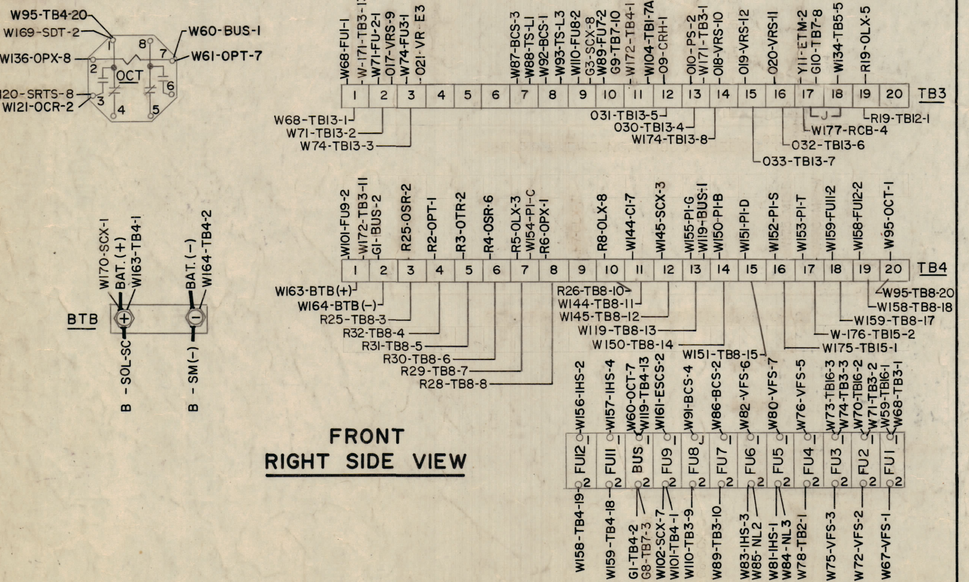
FRONT DOOR - REAR VIEW



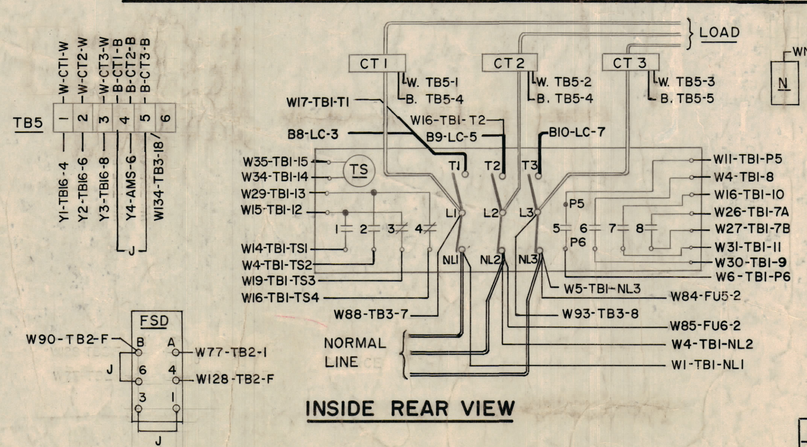
FRONT
LEFT SIDE VIEW

FRONT
RIGHT SIDE VIEW

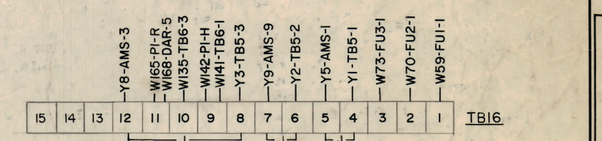
BOTTOM VIEW REAR DOOR



SEE ZONE A5, 6, 7 & 8 - ALSO ASCO DWG. NO. HS247-756



INSIDE REAR VIEW



SEE SHEET 2 FOR NOMENCLATURE
SEE SHEET 2 FOR REVISIONS

QTY REQ	QTY REQ	QTY REQ	ITEM	PART NO.	MANUFACTURER	DESCRIPTION	SYM

PARTS LIST

INTERPRET DRAWING PER LISTED DOCUMENTS

DIMENSIONING MIL-STD-8
SURFACE ROUGHNESS MIL-STD-10
ABBREVIATIONS MIL-STD-12
ELECTRONIC SYMBOLS MIL-STD-15
WELDING SYMBOLS JAN-STD-19

NEXT ASSY: AX719 | USED ON:
APPLICATION:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES
REMOVE ALL BURRS AND SHARP EDGES

TOLERANCES ON
FRACTIONS ANGLES DECIMALS
MATERIAL
FINISH

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		DATE
DRAWN	MITCH	12-11-72
CHECKED		6-11-73
D. ENG.		
P. ENG.		2-28-73
P. MGR.		
CHIEF, ENG. DEPT.		
FAA QRO		

THE TMC SYSTEMS AND POWER CORPORATION
SPRINGFIELD, VIRGINIA

50 KW ENGINE GENERATOR SET
WIRING DIAGRAM
(CONTROL CABINET)

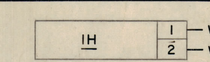
SIZE	CODE IDENT NO	DWG. NO.	
D	24146	CK1805	

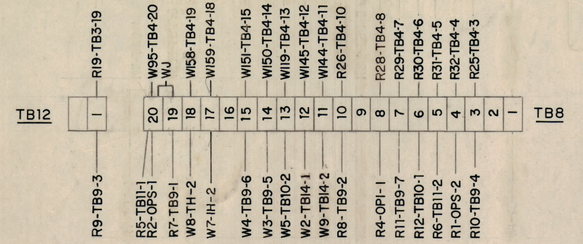
SCALE | SHEET 1 OF

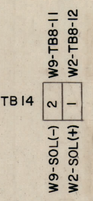
ZONE	LTR	DESCRIPTION	DATE	DRAFT	CHK'D	APPD
	N	REVISED BCS WIRING	5/14/73	RMF	CRB	
	P	FAA COMMENTS	5/19/73	RMF		
	Q	REVISED PER Q & CHANGES A.S. PER QA LIST NO. 0351 (6-7-73)	6/11/73	ESF	24	

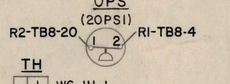
REVISIONS

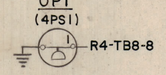
ZONE	LTR	DESCRIPTION	DATE	DRAFT	CHK'D	APPD
	B	ENGINEERING CHANGE	2-7-73	CWF		
	C	AS BUILT	2-2273	RMF		
	D	ENGINEERING CHANGE	3/10/73	RMF		
	E	FAA COMMENTS	3/19/73	RMF		
	F	ENGINEERING CHANGE	3/21/73	RMF		
	G	REVERSED W31 & G30 ON TB13, CORRECTED "FAR" REMOVED G2 FROM TB8-9, REVISED DRE	3/23/73	RMF		
	H	REVISED "SM" & LC CONFIGURATION	4/12/73	RMF		
	J	ADDED INTERCONNECTIONS & DIODE REVERSED "PS"	4/26/73	RMF		
	K	CORRECTED PER FAA FIRST ARTICLE	4/28/73	RMF		
	L	AS BUILT	5/4/73	RMF	CRB	
	M	REMOVED R20, RELOCATED W98, ADDED J	5/9/73	RMF		

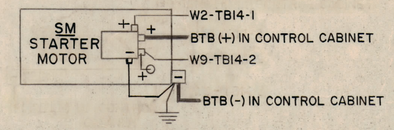


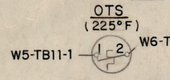


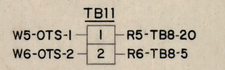


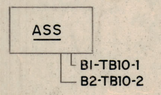


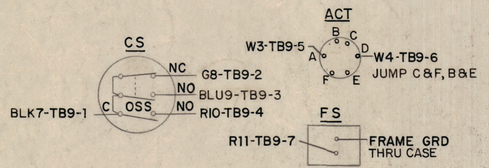






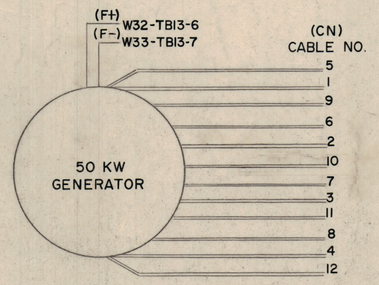


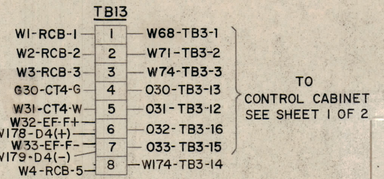


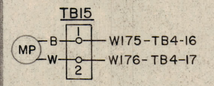


ENGINE WIRING
(VIEW FROM TOP OF ENGINE.)

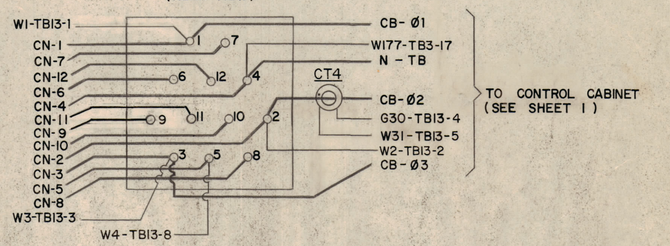
EF
EXCITER FIELD LEADS







RCB
RECONNECTION BOARD
(REAR VIEW)

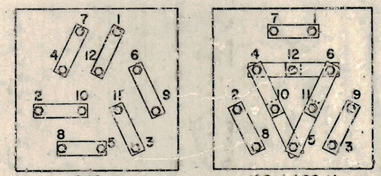


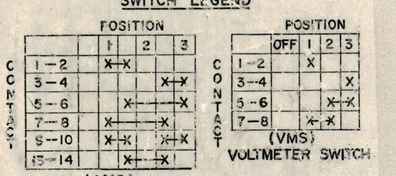
GENERATOR WIRING

NOMENCLATURE

ACT	ACTUATOR, GOVERNOR
AM	AC AMMETER
AMS	AMMETER SWITCH
ASS	AIR SHUTDOWN SOLENOID
AVA	AUTOMATIC VOLTAGE ADJUST
BCO	BATTERY CHARGER OVERLOAD BREAKER
BCS	BATTERY CHARGER SWITCH (2 POLE)
BCT	BATTERY CHARGER TIMER (I-NC), (TO 1 HOUR).
BCX	BATTERY CHARGER AUXILIARY RELAY (2-NO, I-NC)
BEC	EQUALIZING CHARGE PUSHBUTTON (MOMENTARY)
BTS	BATTERY CHARGER TEST SWITCH (I-NC)
BTB	BATTERY TERMINAL BOARD
CB	CIRCUIT BREAKER, GENERATOR
CI	CRANKING INTERRUPTOR
CS	CENTRIFUGAL SWITCH (I-NO, I-NC AT 600 RPM)
CT1, 2, & 3	CURRENT TRANSFORMERS
CT4	CROSS CURRENT COMPENSATING TRANSFORMER
CRH	COMPENSATION RHEOSTAT
DAR	DROOP ADJUST RHEOSTAT
DCA	DC AMMETER
DCL	DC CONTROL INDICATOR LIGHT (GREEN)
ECT	EQUALIZING CHARGE TIMER (I-NC)(TO 8 HOURS)
ELT	EXTENDED LOAD TEST RELAY (I-NO, I-NC)
ELS	EXTENDED LOAD STOP SWITCH (I-NO, I-NC)
ELTL	EXTENDED LOAD TEST LIGHT (AMBER)
ESCS	EMERGENCY STOP AND CONTROL CUTOUT SWITCH
ETM	ELAPSED TIME METER
FAR	FREQUENCY ADJUST RHEOSTAT
FM	FREQUENCY METER
FS	FUEL SOLENOID (FUEL RACK CONTROL)
FSD	FREQUENCY SENSING DEVICE (I-NO)
FU	FUSE
IH	IMMERSION HEATER
IHS	IMMERSION HEATER SWITCH (2 POLE)
GCB	GOVERNOR CONTROL BOX
LB	LOAD TEST JACKS
LC	LOADBANK CONTACTOR (4-NO)
LCS	LOADBANK CONTACTOR SWITCH (I-NO, I-NC)
LTS	LOAD TEST SWITCH (I-NC, I-NO)
M	MOTOR
MVA	MANUAL VOLTAGE ADJUST
MP	MAGNETIC PICK-UP
N	NEUTRAL
NL	NORMAL POWER LINE
OCR	OVERCRANK RELAY (I-NO, I-NC)
OCL	OVERCRANK LIGHT (RED)
OCT	OVERCRANK TIMER RELAY (I-NO)(TO 60 SEC.)
OLX	AUXILIARY PILOT RELAY (3-NO, I-NC)
OPI	OIL PRESSURE INTERLOCK SWITCH (I-NC)(OPEN 4 PSI)
OPL	OIL PRESSURE LIGHT (RED)
OPR	OIL PRESSURE RELAY (I-NO, I-NC)
OPS	OIL PRESSURE SWITCH (I-NC)(CLOSE 20 PSI)
OPT	OIL PRESSURE TIMER RELAY (I-NO)(TO 60 SEC.)
OPX	OIL PRESSURE AUXILIARY RELAY (2-NO)
OSL	OVERSPEED LIGHT (RED)
OSR	OVERSPEED RELAY (2-NO, I-NC)
OSS	OVERSPEED SWITCH (I-NO)(CLOSE 2160 RPM)
OTL	OVER TEMPERATURE LIGHT (RED)
OTR	OVER TEMPERATURE RELAY (I-NO, I-NC)
OTS	OVER TEMPERATURE SWITCH (I-NO)(CLOSE 225°F)
PI	PLUG, GOVERNOR
PS	PARALLELING SWITCH (I-NC)
PX	BATTERY CHARGER POWER RELAY (2-NO)
R	RESISTANCE
SC	STARTING MOTOR CONTACTOR (I-NO)
SCX	STARTING CONTACTOR AUXILIARY RELAY (2-NO, I-NC)
SDT	SHUTDOWN TIMER (I-NO)(TO 3 MIN.)
SOL	STARTING SOLENOID
SRTS	SAFETY RESET AND LAMP TEST SWITCH (4-NC, 4-NO)
TB	TERMINAL BOARD
TH	THERMOSTAT, IMMERSION HEATER
TS	TRANSFER SWITCH (3-NO, 3-NC), AUX. SW (6-NO, 2-NC)
TVR	TEMPERATURE COMPENSATED VOLTAGE SENSING RELAY (I-NC)
TX	TRANSFORMER, BATTERY CHARGER
VFS	VOLTAGE AND FREQUENCY METER LINE SELECTOR SWITCH (3-NO, 3-NC)
VM	VOLTMETER, AC
VMS	VOLTMETER SWITCH
VR	VOLTAGE REGULATOR
VRS	VOLTAGE REGULATOR SWITCH
J	JUMPER

SWITCH LEGEND





PARTS LIST

QTY REQ	QTY REQ	QTY REQ	ITEM	PART NO.	MANUFACTURER	DESCRIPTION	SYM

AX719	
NEXT ASSY	USED ON
APPLICATION	

INTERPRET DRAWING PER LISTED DOCUMENTS

DIMENSIONING
MIL - STD - 8
SURFACE ROUGHNESS
MIL - STD - 10
ABBREVIATIONS
MIL - STD - 12
ELECTRONIC SYMBOLS
MIL - STD - 15
WELDING SYMBOLS
JAN - STD - 19

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES
REMOVE ALL BURRS AND SHARP EDGES

TOLERANCES ON
FRACTIONS ANGLES DECIMALS

MATERIAL

FINISH

DRAWN	MITCH	DATE 12-21-72
CHECKED	[illegible]	DATE 6-11-73
D. ENG.		DATE
P. ENG.	[illegible]	DATE 14 Jun 73
P. MGR.		DATE
CHIEF, ENG. DEPT.	[illegible]	DATE 14 June 73
FAA QRO	[illegible]	DATE 18 June

THE TMC SYSTEMS AND POWER CORPORATION
SPRINGFIELD, VIRGINIA

50 KW ENGINE GENERATOR SET
WIRING DIAGRAM
(ENGINE GENERATOR)

SIZE	CODE IDENT NO	DWG. NO.	REV
D	24146	CK1805	Q

SCALE | SHEET 2 OF 2

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RADIATOR END