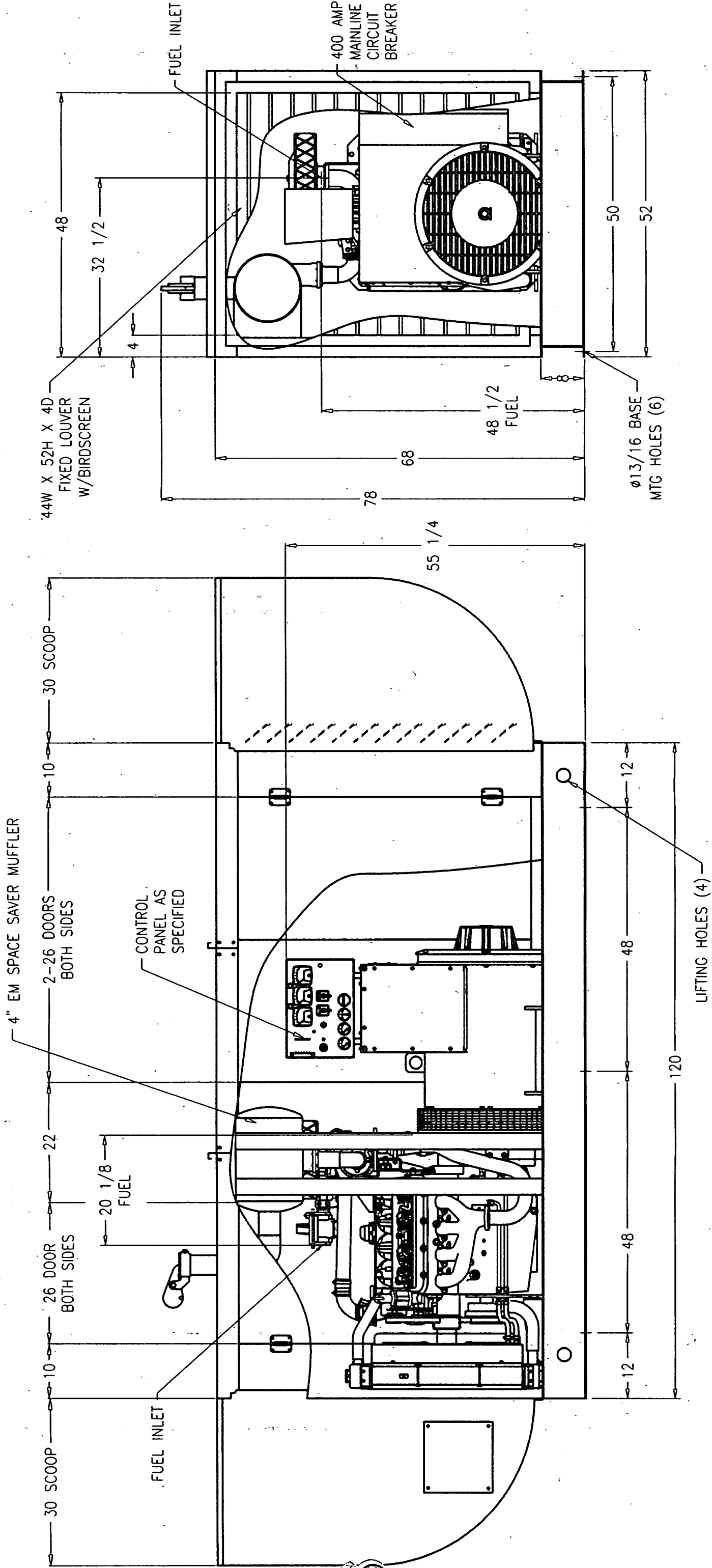


THIS DRAWING IS PROPERTY OF KATOLIGHT CORPORATION AND IS INTENDED FOR USE WITH OUR VENDORS AND CUSTOMERS. ANY CHANGES/MODIFICATIONS BY OTHERS MAY VOID DRAWING. DRAWING CHANGES MUST BE DONE BY KATOLIGHT AND MAY BE DONE SO AT ANYTIME.

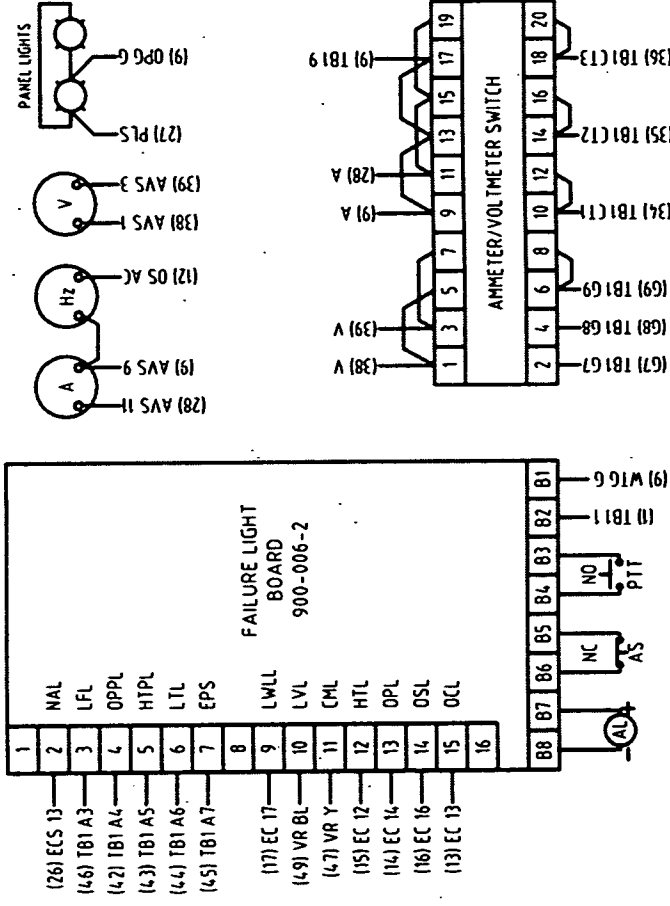


KATOLIGHT
MANKATO, MINNESOTA

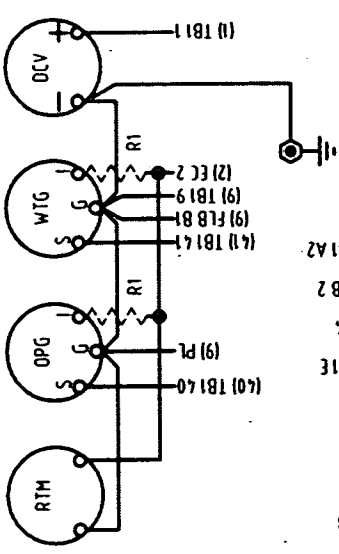
ENGINE	GM 8.1L T	GENERATOR	431 PSL/PMG	RADIATOR	STD W/ENG	HOUSING	HSG-255
SIZE	B	DATE	05-22-03	DWG NO	100-2508-20		
SCALE	.05=1		NL125FPC4		OWN BY MGH SHEET 1 OF 1		

NOTES:
1. RADIATOR CORE WIDTH 26 1/2"

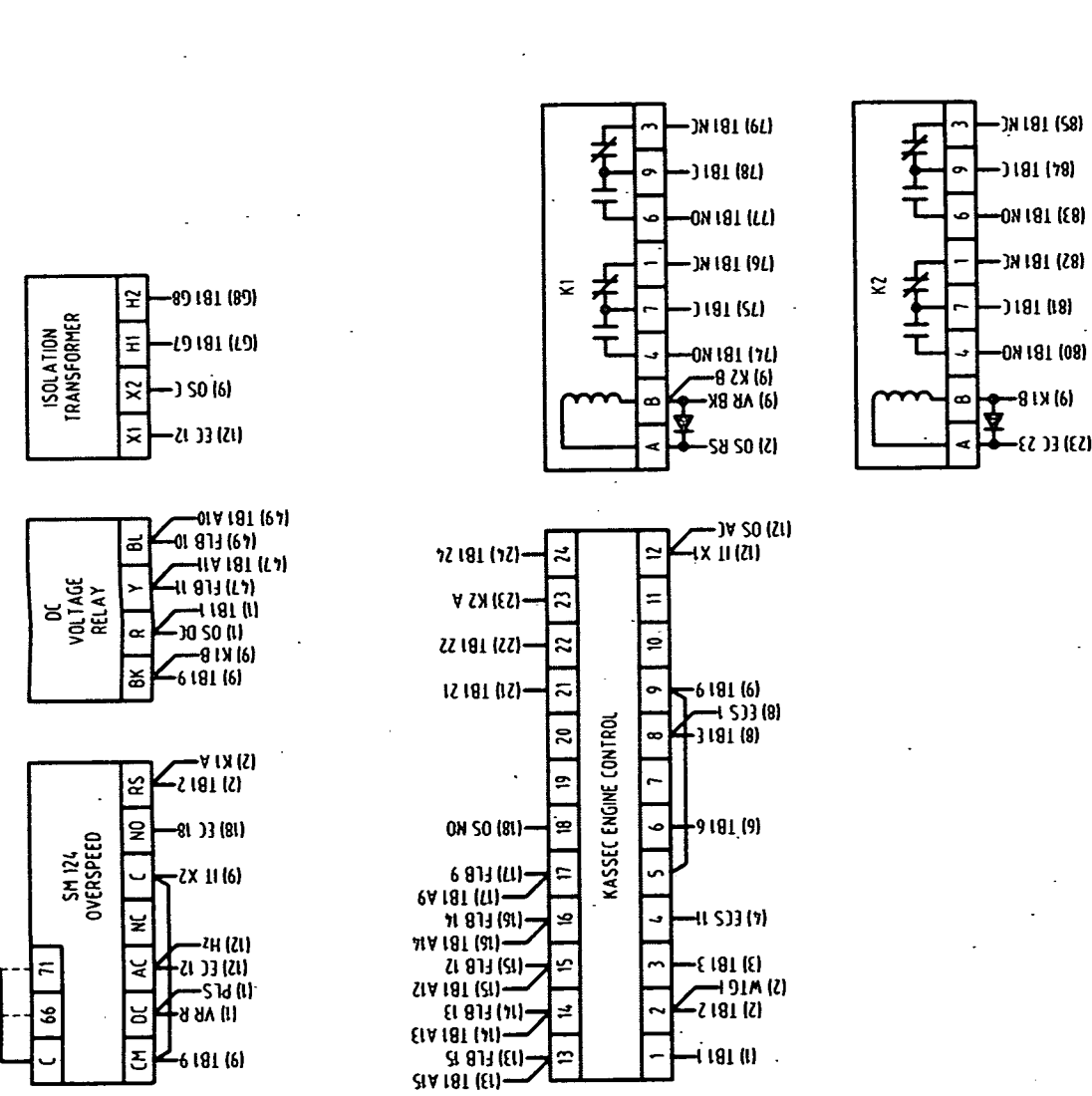
PANEL DOOR



ENGINE GAUGES



PANEL BACK



LEGEND

- A AMMETER
AL ALARM
AS ALARM SILENCE SWITCH
AVS AMMETER/VOLTMETER SELECTOR SWITCH
CML CHARGER MALFUNCTION LED
DCV DC VOL TMETER
EC ENGINE CONTROL KASSEC
ECS ENGINE CONTROL SWITCH
EPS EMERGENCY POWER SUPPLYING LOAD LED
FLB FAILURE LIGHT BOARD
HTL HIGH ENGINE TEMPERATURE LED
HZ FREQUENCY METER
IT ISOLATION X-FORMER
K1 ENGINE RUN RELAY
K2 ENGINE FAIL RELAY
LFL LOW FUEL LEVEL LED
LTL LOW WATER TEMPERATURE LED
LVL LOW BATTERY VOLTAGE LED
LWLL LOW WATER LEVEL LED
NAL UNIT NOT IN AUTO LED
OCL OIL PRESSURE GAUGE
OPG OIL PRESSURE GAUGE
OPL LOW OIL PRESSURE PREALARM LED
OS OVERSPEED SWITCH SM 124
OSL ENGINE OVERSPEED LED
PL PANEL LIGHTS
PLS PANEL LIGHT SWITCH
PTT PRESS TO TEST
R1 200 OHM RESISTOR
RTM RUNNING TIME METER
TB1 TERMINAL BOARD 1
V VOL TMETER
VR DC VOLTAGE RELAY
WTG WATER TEMPERATURE GAUGE

AMMETER/VOLTMETER SELECTOR SWITCH

1	3	5	7	9	11	13	15	17	19
2	4	6	8	10	12	14	16	18	20
OFF									
L1 1-2	X	X	X	X	X	X	X	X	X
L2 2-3	X	X	X	X	X	X	X	X	X
L3 3-1	X	X	X	X	X	X	X	X	X

ENGINE CONTROL ROTARY SWITCH

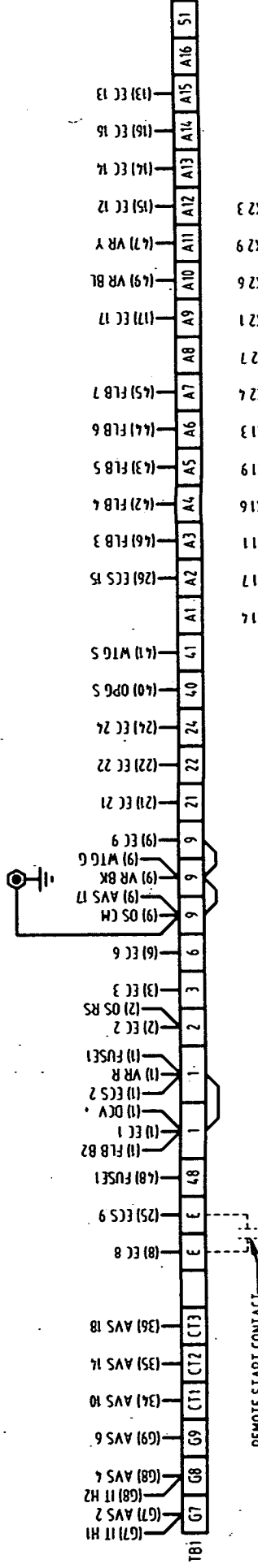
1	3	5	7	9	11	13	15	17	19
2	4	6	8	10	12	14	16	18	20
MAN	X	X	X	X	X	X	X	X	X
OFF									
AUTO									

KATOLIGHT

MANKATO, MINNESOTA

POINT TO POINT DIAGRAM

SIZE	DATE	DWG NO	DESCRIPTION	OWN BY	ECC	SHEET
B	5-22-2003	819-B-13041	50K, GM/WW LCS			1 OF 1



- NOTES:
1. FUSE 1 (PANEL) AGC 9A.
 2. ALL WIRE NUMBERS ARE IN PARENTHESES.
 3. USE #20GA WIRE ON ALL DEVICES UNLESS OTHERWISE SPECIFIED.
 4. R1 USED ONLY ON 24V UNITS.

CONTROL PANEL

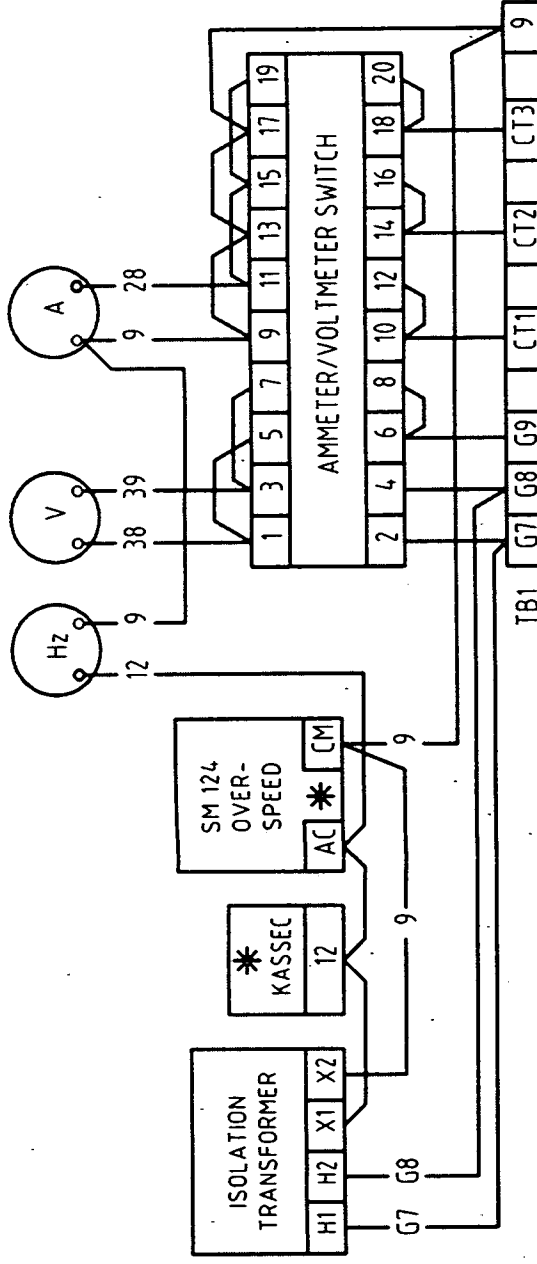
AMMETER/VOLTMETER COMBINATION
SELECTOR SWITCH #35054

	1	3	5	7	9	11	13	15	17	19
2		4	6	8	10	12	14	16	18	20
OFF					X		X		X	
L1	X					X				
L1-2		X					X			
L2			X					X		
L2-3				X					X	
L3	X									X
L3-1-3										

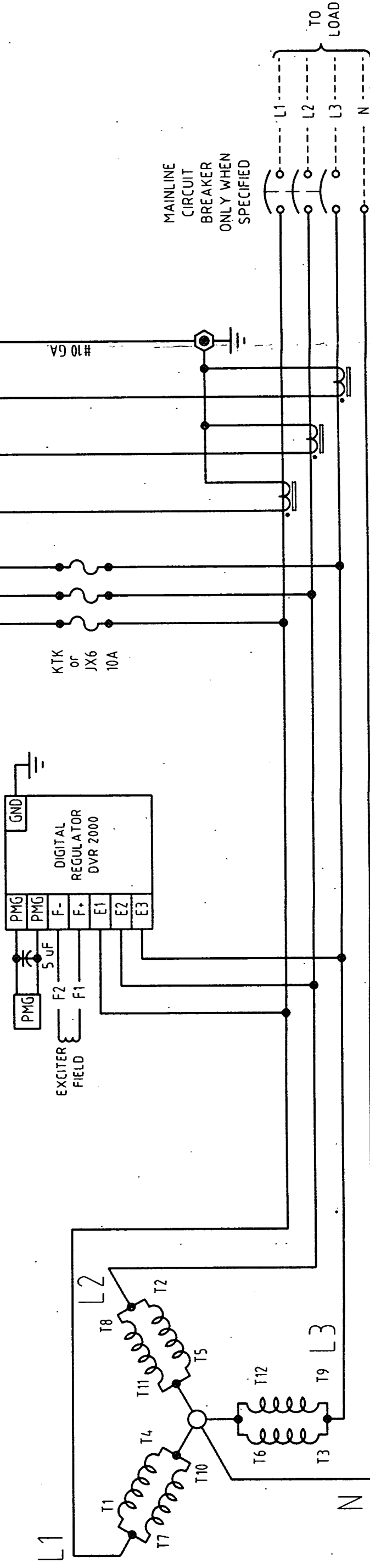
* KASSEC AND SM 124 ARE AC AND DC
DEVICES. SEE DC LADDER DIAGRAM.

LEGEND

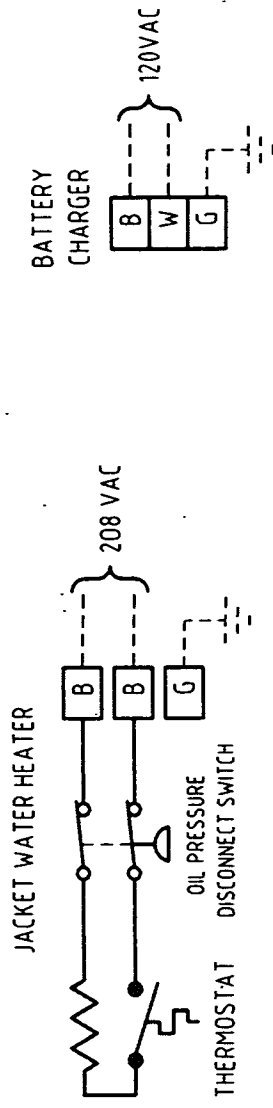
- A AMMETER
- HZ FREQUENCY METER
- V VOLTMETER



GENERATOR OUTLET BOX



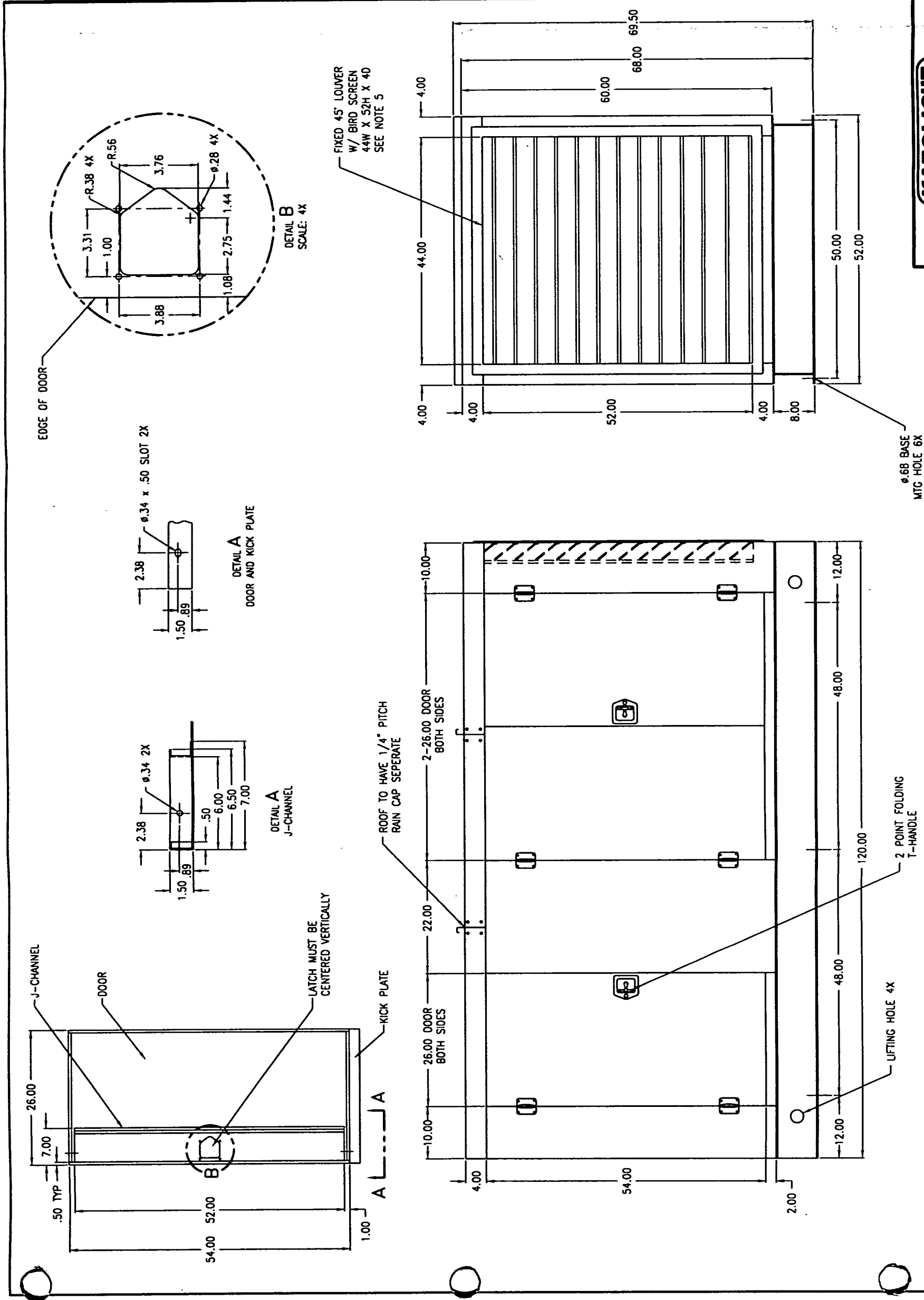
CUSTOMER CONNECTIONS



MANKATO, MINNESOTA

AC DIAGRAM

SIZE	DATE	DWG NO	819-B-13040
B	5-21-203		
DESCRIPTION	120/208 3Ø	DWN BY	ECG
		SHEET	10F 1



REVISIONS:

1. LIGHTENED LATCH CUTOUT 1/8" AND REMOVED ROOF SUPPORTS 3-20-01 JAK
2. ADDED NOTE 5 9-7-01 JAK

RECOMMENDED POWER
STUB-UP AREA 10 x 10

RECOMMENDED FUEL
STUB-UP AREA 10 x 10

2.00 TYP

14.00

FRONT

LIFTING
HOLES (4)

.68Ø BASE MTG HOLES

12.00

48.00

48.00

120.00

12.00

8.00

50.00

52.00

NOTES:

1. FUEL STUB-UP AREA NOT REQUIRED WHEN USING SUB-BASE FUEL TANK
2. POWER STUB-UP MAYBE LOCATED INSIDE HOUSING ON GASEOUS UNITS ONLY. EXCEPTION FOR DIESEL UNITS WHEN USING SUB-BASE FUEL TANK W/ STUB-UP AREA THRU TANK. ANY OTHER APPLICATIONS, STUB-UP IS OUTSIDE OF HOUSING.

APPROX WT: 284#

KATOLIGHT

WANKATO, MINNESOTA

ENGINE	GENERATOR	RADIATOR	HOUSING
8.1 TURBO	360,430	STD W/ENG	HSG-105/255
SIZE	DATE	DWG NO	
B	05-09-02	102-2465-A	
SCALE	12=1	PART NO	DWN BY MGH SHEET 1 OF 1

✓-4" EM SPACE SAVER MUFFLER



MANKATO, MINNESOTA

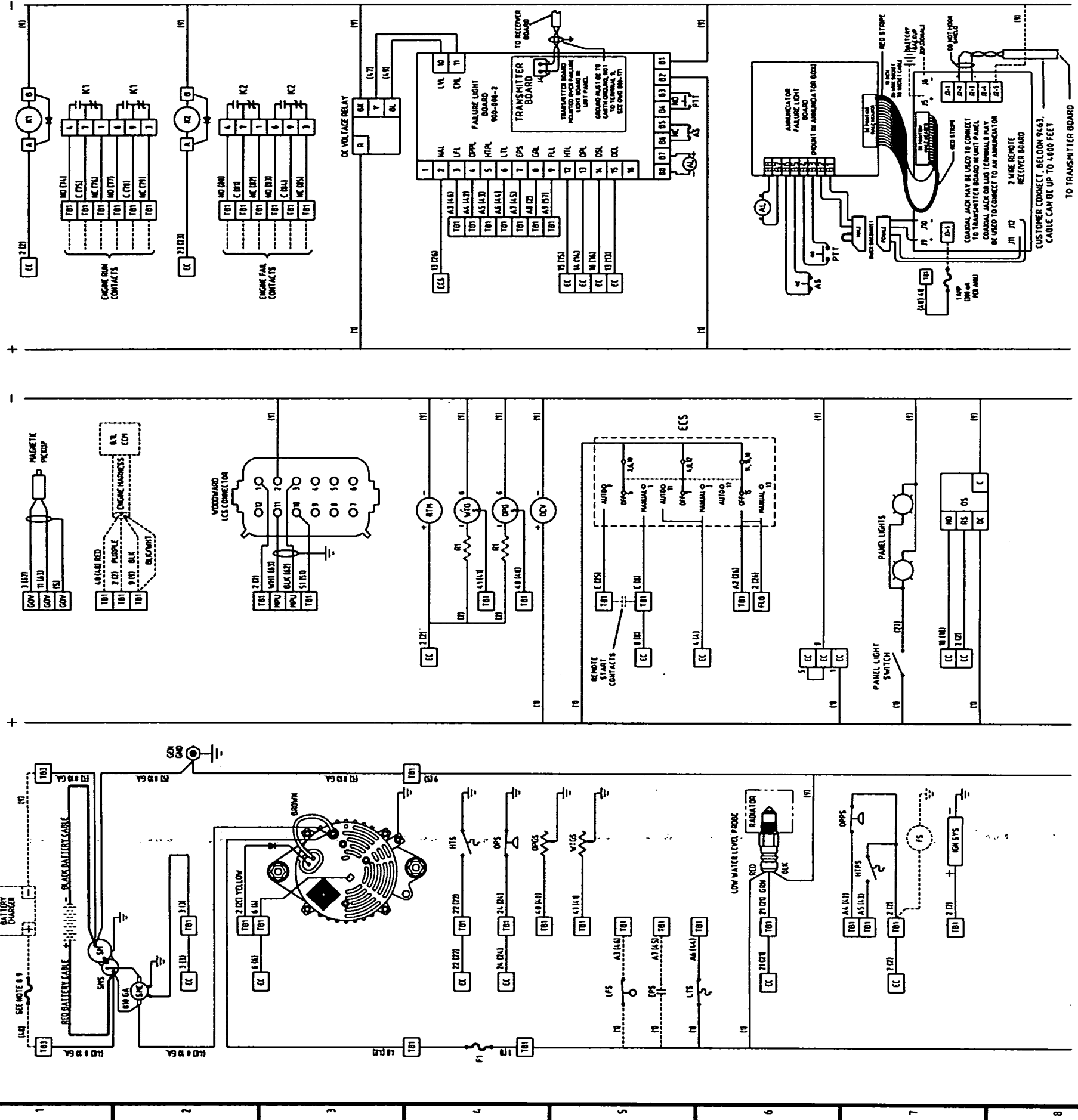
ENGINE CM 8.1L T	GENERATOR 431 PSL/PMG	RADIATOR STD W/ENG	HOUSING HSG-255
SIZE B	DATE 05-22-03	DWG NO 100-2508-20	
SCALE 05=1	NL125FPG4	DWN BY MGH	SHEET 1 OF 1

- LEGEND
- AL ALTERNATOR
ALT ALARM SILENCE SWITCH
AS CHARGER HALF-UNIT LED
CCV DC VOLTMETER
EC ENGINE CONTROL, KASSEC
ECS ENGINE CONTROL SWITCH
EPS EMERGENCY POWER SUPPLYING LOAD LED
F1 PANEL FUSE ACC 9AMP
F5 FUEL SOLENOID
GEN GENERATOR
GND GROUND
HTL HIGH ENGINE TEMPERATURE LED
HTPL HIGH ENGINE TEMPERATURE PRE-ALARM LED
HTPS HIGH ENGINE TEMPERATURE PRE-ALARM SWITCH
HTS HIGH ENGINE TEMPERATURE RELAY
K1 ENGINE RUN RELAY
K2 ENGINE FAIL RELAY
LFL LOW FUEL LEVEL LED
LPL LOW FUEL LEVEL SWITCH
LTL LOW WATER TEMPERATURE LED
LVL LOW WATER TEMPERATURE SWITCH
LWL LOW WATER LEVEL LED
LWL LOW WATER LEVEL PROBE
MAL UNIT NOT IN AUTO LED
OCL ENGINE OVERCRANK LED
OPG OIL PRESSURE GAUGE
OPCS OIL PRESSURE GAUGE SENDER
OPL OIL PRESSURE LED
OPPL LOW OIL PRESSURE PRE-ALARM LED
OPPS LOW OIL PRESSURE PRE-ALARM SWITCH
OPS LOW OIL PRESSURE SWITCH
OS OVERSPEED LED
OSL OVERSPEED SWITCH SH 174
PTT PRESS TO TEST
R1 200 OHM RESISTOR
RTH RUNNING TIME METER
SM STARTER MOTOR
SMC STARTER MOTOR COIL PILOT RELAY
SMS STARTER MOTOR SOLENOID
T81 TERMINAL BOARD 1
T83 TERMINAL BOARD 3
VR DC VOLTAGE RELAY
WTO WATER TEMPERATURE GAUGE
WTGS WATER TEMPERATURE GAUGE SENDER

ENGINE CONTROL ROTARY SWITCH

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
MAN	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

- NOTE:
1. WIRE NUMBERS ARE IN PARENTHESES.
 2. ENGINE WIRING IS 916 GA UNLESS OTHERWISE SPECIFIED.
 3. CONTROL PANEL WIRING IS #10 GA UNLESS OTHERWISE SPECIFIED.
 4. ENGINE CONTROL SWITCH IS IN OFF POSITION.
 5. R1 ONLY USED ON 24 V UNITS.
 6. EC AND OS ARE AC AND DC DEVICES.
 7. SEE AC DIAGRAM.
 8. SHORT DASHED LINES (-----) INDICATE CUSTOMER CONNECTION OR OPTIONAL EQUIPMENT.



KATOLIGHT
MINNETONKA, MINNESOTA

DC LADDER DIAGRAM

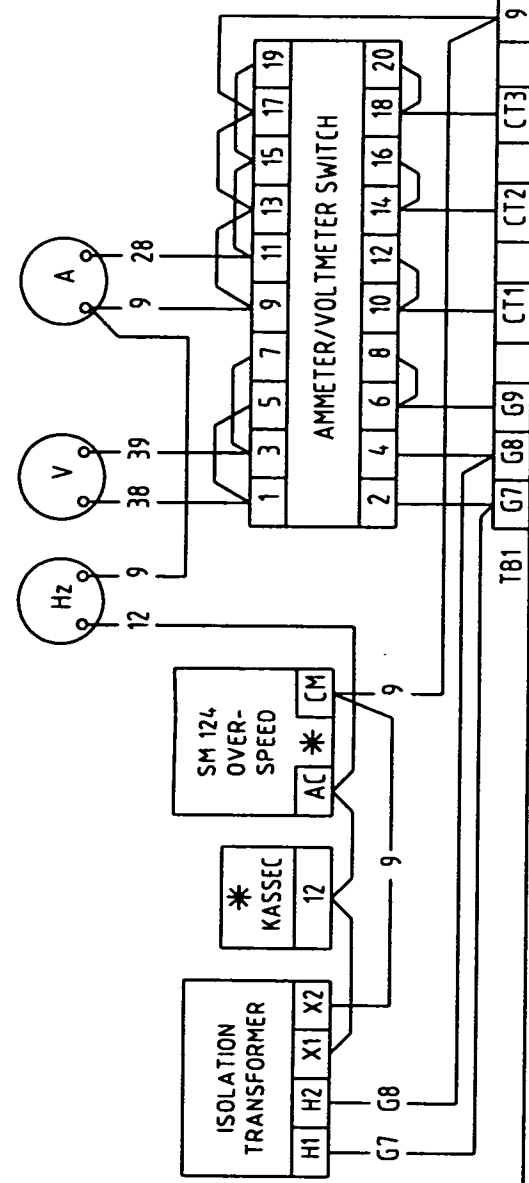
A B C D E F G H

CONTROL PANEL

AMMETER/VOLTMETER COMBINATION
SELECTOR SWITCH #35054

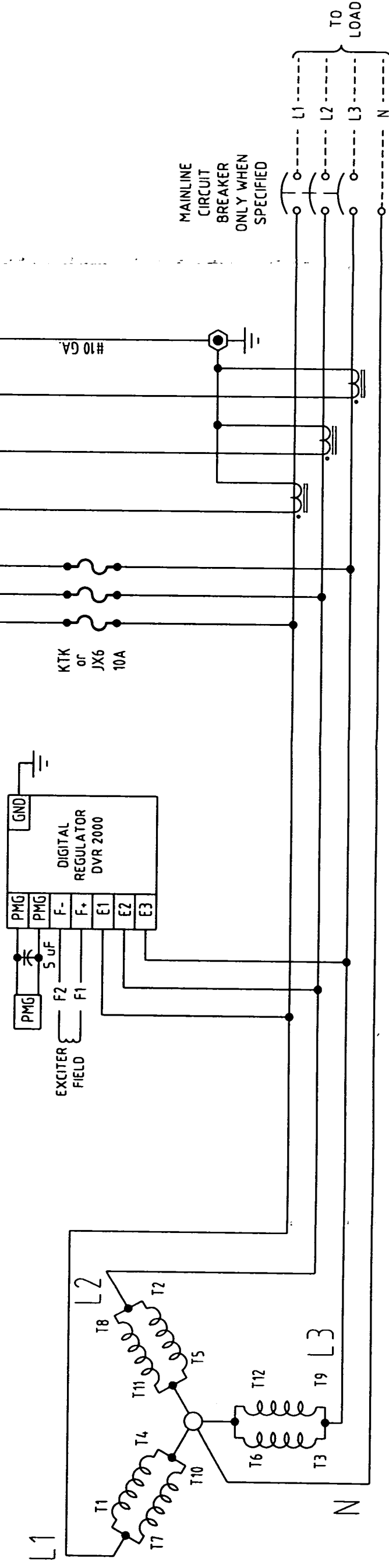
	1	3	5	7	9	11	13	15	17	19
	2	4	6	8	10	12	14	16	18	20
OFF					X		X		X	
L1 1-2	X					X	X		X	
L2 2-3		X			X			X		X
L3 1-3	X			X		X		X		X

* KASSEC AND SM 124 ARE AC AND DC
DEVICES. SEE DC LADDER DIAGRAM.

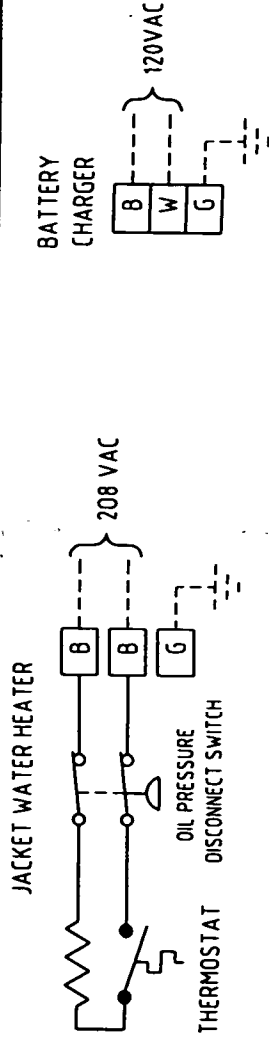


LEGEND
A AMMETER
Hz FREQUENCY METER
V VOLTMETER

GENERATOR OUTLET BOX



CUSTOMER CONNECTIONS



KATOLIGHT
MANKATO, MINNESOTA

AC DIAGRAM

SIZE B DATE 5-21-203 DWG NO 819-B-13040
DESCRIPTION 120/208 3Ø DWN BY ECG SHEET 1 OF 1