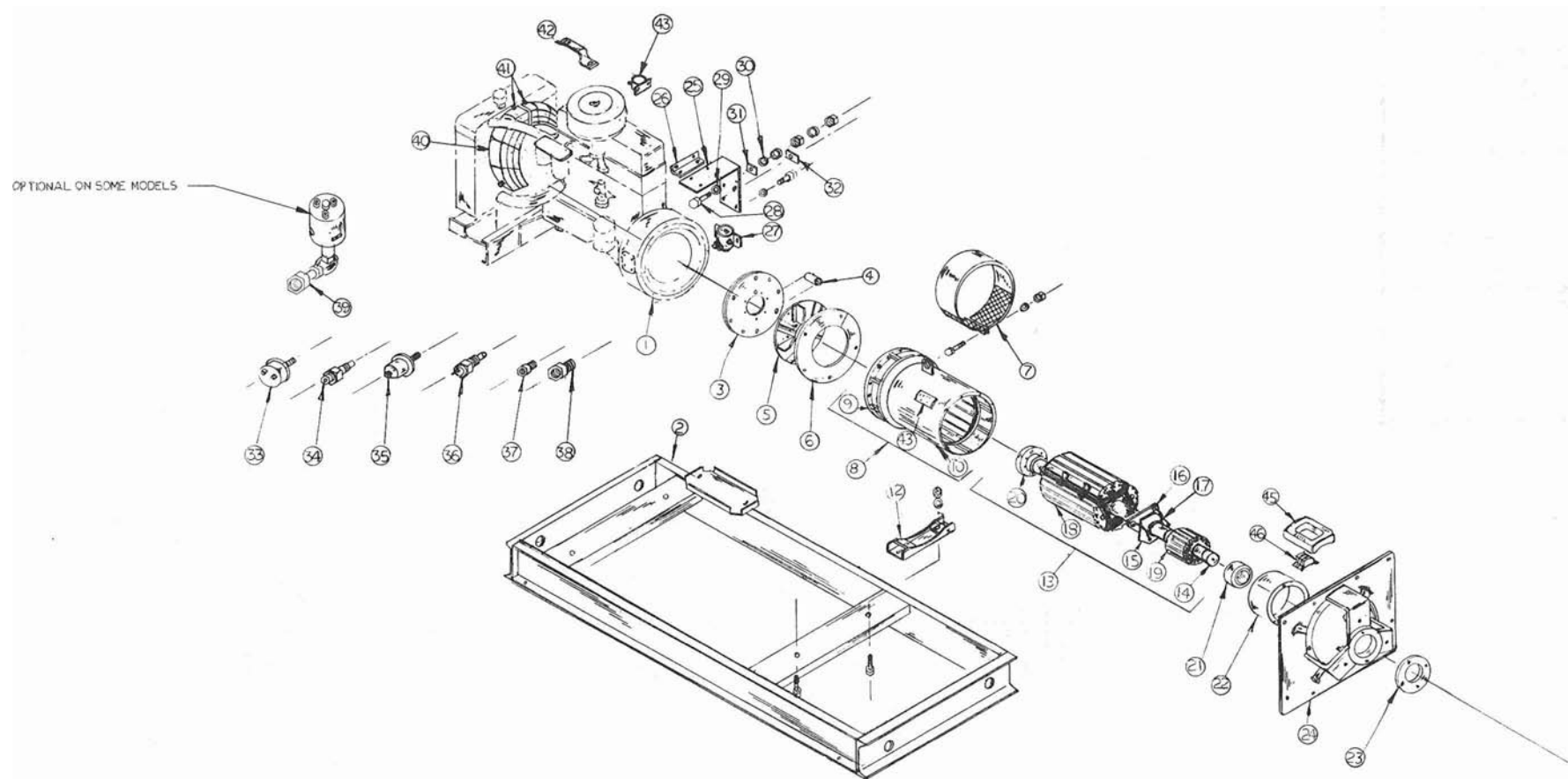


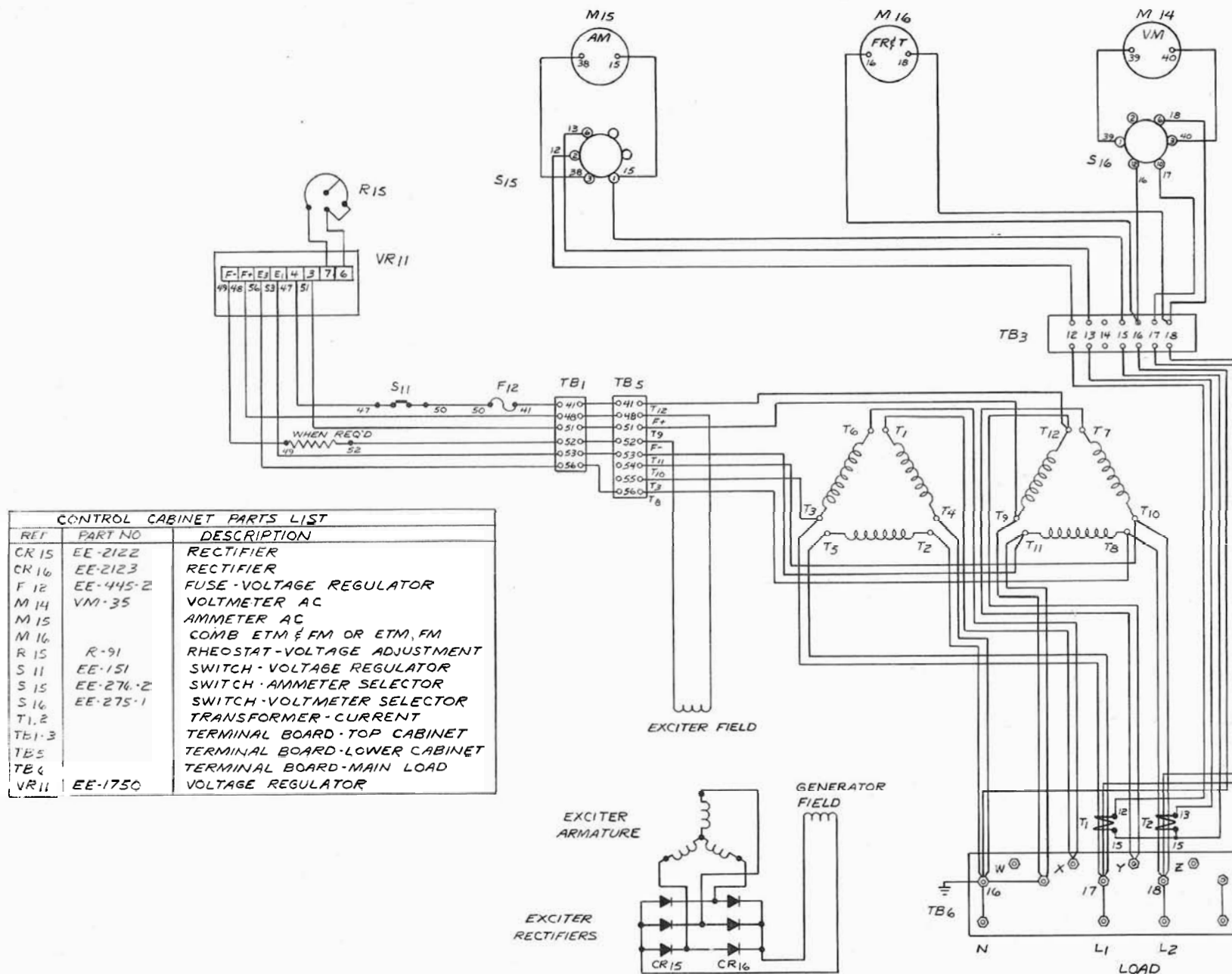


WINPOWER CORPORATION

Model DR30H4-C Type 1
30 KW 30 KVA 1.0 P.F. 60 HZ
1 Phase 125 Amps 3 Wire
120/240 Volts 130 °C Rise
Wiring Diagram IF-5216-4
Released: 12-1-76

REF. NO.	PART NO.	PART DESCRIPTION	REQ'D/UNIT
1	EC-17501	Engine Hercules D-2300	1
2	G-6407	Skid Assembly	1
	3685-2	Screw 5/8-11 x 1-1/4	2
	1189	Washer 5/8 Flt. Stl.	2
	4621	Nut 5/8-11 Hx	2
	1148	Washer 5/8 Lock	2
3	S-5813-1	Coupling Disc	2
	S-6896-1	Screw 3/8-16 x 3/4	7
	1185	Washer 3/8 Flat Steel	7
4	S-6878-4	Fan Spacer	4
	S-6896-1	Screw 3/8-16 x 2	4
5	G-5829	Fan Assembly	1
6	S-6902	Fan Shroud	1
7	G-3863-2	Fan Guard	1
	3526	Screw 1/4-20 x 1	1
	5805	Nut 1/4-20	2
8	G-5818-12	Stator & Frame Assembly	1
9	G-5816	Frame Assembly	1
10	G-6881	Stator, Electrical	1
11	Not Applicable		
12	G-5817	Generator Support	1
13	G-6920	Revolving Elec. Assembly	1
14	N-587-1	Shaft	1
15	G-6303	Heat Sink Assembly	1
16	EE-2123	Diode - Forward	1
17	EE-2122	Diode - Reverse	1
18	G-6907	Rotor Elec. Assembly	1
19	G-6933	Exciter, Armature	1
20	I-825-1	Coupling Hub	1
	3887	Screw 1/2-13 x 1/2 Soc Hd	1
21	D-7	Bearing	1
22	G-6947	Exciter Frame Assembly	1
	S-6906	Exciter Frame	1
	3547	Screw 5/16-18 x 1-1/4 Hx Hd	12
	1115	Washer T.T.	12
	G-292-1	Field Pole Assembly	4
	J-436	Insulator	8
	H-1202	Field Coil Assembly	4
23	S-3952	Bearing Retainer	1
	3522	Screw 1/4-20 x 1/2	2
	1114	Washer 1/4 Int. T.	2
24	I-881	Bearing Housing	1
	3582-2	Screw 3/8-16 x 1-1/4 Gr 5	6
	1144	Washer Split Lock	6
25	S-5872-1	Bracket	2
26	S-6076	Angle	1
27	EE-1201	Start Contactor	1
28	3547-1	Screw 5/16-18 x 1-1/4 Brass	2
29	Not Applicable		
30	Not Applicable		
31	Z-283	Nameplate, Positive Battery	1
32	Z-284	Nameplate, Negative Battery	1
33	OP-23	Oil Pressure Switch	1
33a	OP-24	Oil Pressure Switch	1
34	WT-22	Water Temperature Sender 1/4 NPT	1
35	OP-22	Oil Pressure Sender	1
36	WT-23	Water Temperature Switch 1/2 NPT	1
37	EN-18174	Tee 1/8M to 2/8F to 1/8F	1
38	EN-1820	Bushing 3/8M to 1/4F NPT	1
39	Not Applicable		
40	G-5895	Fan Guard	2





CONTROL CABINET PARTS LIST

REF	PART NO	DESCRIPTION
CR 15	EE-2122	RECTIFIER
CR 16	EE-2123	RECTIFIER
F 12	EE-445-2	FUSE-VOLTAGE REGULATOR
M 14	VM-35	VOLTMETER AC
M 15		AMMETER AC
M 16		COMB ETM & FM OR ETM, FM
R 15	R-91	RHEOSTAT-VOLTAGE ADJUSTMENT
S 11	EE-151	SWITCH-VOLTAGE REGULATOR
S 15	EE-274-2	SWITCH-AMMETER SELECTOR
S 16	EE-275-1	SWITCH-VOLTMETER SELECTOR
T1,2		TRANSFORMER-CURRENT
TB1,3		TERMINAL BOARD-TOP CABINET
TB5		TERMINAL BOARD-LOWER CABINET
TB6		TERMINAL BOARD-MAIN LOAD
VR11	EE-1750	VOLTAGE REGULATOR

SCHEMATIC DIAGRAM
GENERATOR REGULATOR
INSTRUMENTATION

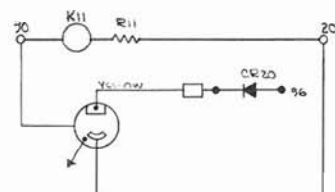
SCALE: 2-7-77
DATE: 2-7-77
DWG: RH

WINPOWER CORPORATION
NEWTON, IOWA 50208

120/240 TO 139/278 VOLTS; 60 HZ
115/230 TO 133/266 VOLTS; 50 HZ

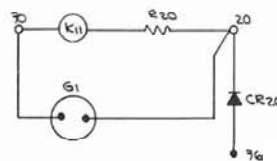
ENGINE PARTS LIST		
REF.	PART NO.	DESCRIPTION
B1	SEE ENG. MAN.	START MOTOR W/ SOLENOID SWITCH
BT1	VARIOUS	BATTERY
C1	SEE ENG. MAN.	CAPACITOR (SPARK IGNITED ENGINES ONLY)
E1	OP-22	SENDER - OIL PRESSURE
E2	WT-22	SENDER - WATER TEMP.
E3	SEE ENG. MAN.	SPARK PLUG - (SPARK IGNITED ENGINES)
G1	SEE NOTE #2	ALTERNATOR OR GENERATOR (BATT. CHARGE)
K1	EE-1201	RELAY, STARTER MOTOR
K2	SEE ENG. MAN.	SOLENOID - FUEL
K3	SEE ENG. MAN.	CHOKE (GASOLINE ONLY)
R1	SEE ENG. MAN.	RESISTOR COIL (OPTIONAL - SPARK IGNITED ENG. ONLY)
R2	SEE ENG. MAN.	RESISTORS - SPARK PLUGS
S1	OP-23	SWITCH - LOW OIL PRESSURE (CLOSED 0-15 PSI)
S2	WT-23	SWITCH - HIGH WATER TEMPERATURE
S3	OP-24	SWITCH - STARTER MOTOR SAFETY (CLOSED 0-35 PSI)
S4	VARIOUS	SWITCH - OVERSPEED (OPTIONAL)
S6	SEE ENG. MAN.	DISTRIBUTOR ASSY. (SPARK IGNITED ENG. ONLY)
S8	SEE ENG. MAN.	SWITCH - VACUUM (GASEOUS FUELS ONLY)
T1	SEE ENG. MAN.	COIL IGNITION (SPARK IGNITED ENG. ONLY)
VR1	SEE ENG. MAN.	VOLTAGE REGULATOR - BATTERY CHARGING

CONTROL CABINET PARTS LIST		
REF.	PART NO.	DESCRIPTION
CB1	EE-1811	CIRCUIT BREAKER - SAFETY SHUTDOWN
CR12	G-5189-9	RECTIFIER - BLOCKING
CR14	G-5189	RECTIFIER - BLOCKING
CR20	EE-2167	RECTIFIER - FIELD FLASHER
CR21	G-5189	RECTIFIER - BLOCKING
DS11,12	EE-940	LAMP - PANEL
DS13	EE-940	LAMP - FAILURE
F11	EE-445-2	FUSE - FIELD FLASHER
K11	EE-1220	RELAY - CRANKING CONTROL
K18	EE-1233	LATCHING RELAY
K14	EE-1203	RELAY
K20	EE-1094	TIME DELAY RELAY
M11	OP-21	GAUGE - OIL PRESSURE
M12	WT-21	GAUGE - WATER TEMPERATURE
M19	AM-12	GAUGE - AMMETER - CHARGE 30-0-30 OR 100-0-100
R11	R-171	RESISTOR - 33 OHM, 10 WATT
R16	R-157	RESISTOR - 100 OHM, 10 WATT
R20	EE-181	RESISTOR - 125 OHM, 10 WATT
S12	EE-151	SWITCH - ENGINE RUN, STOP, REMOTE
S13	EE-151	SWITCH - PANEL LAMP
S14	EE-233	DE-ENERGIZATION SWITCH - SAFETY SHUTDOWN



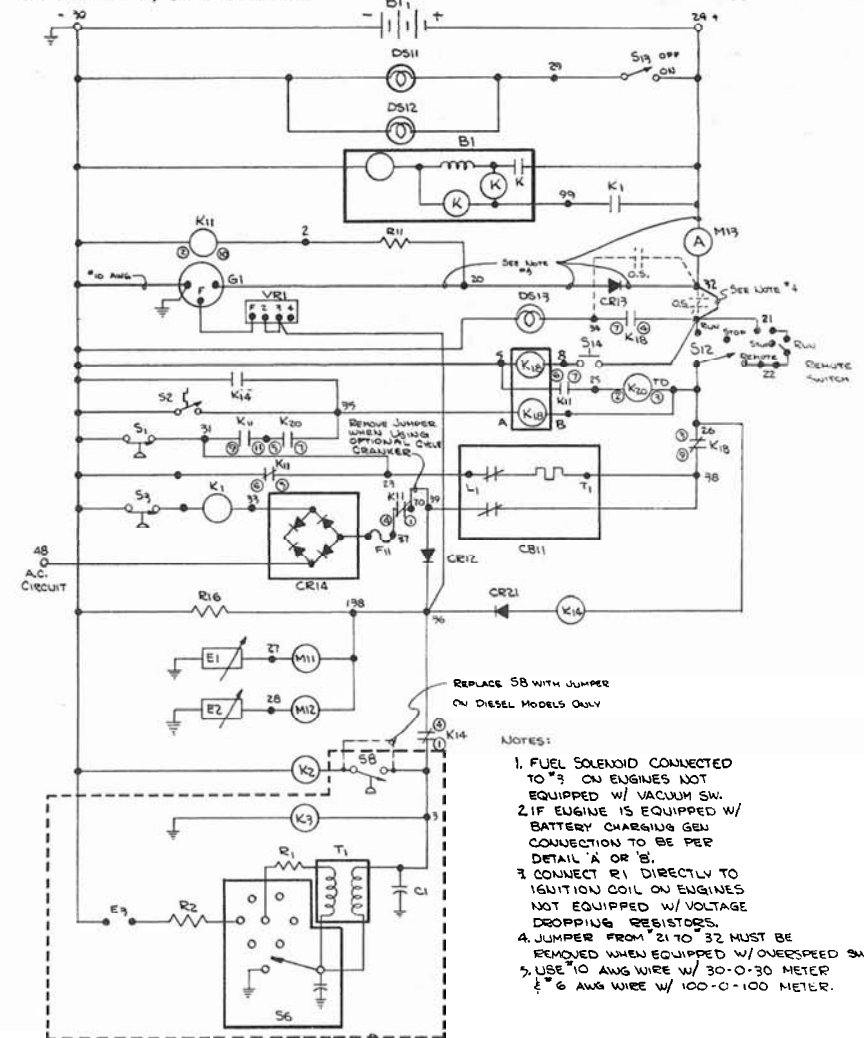
DETAIL A - ALTERNATOR-MOTOROLA NO. BARN-4910 W/ REGULATOR NO. R3-1

NOTE: ADD CR20 RECTIFIER



DETAIL C - DELCO REMY #1102364 37, 3625 12 VDC.
NOTE: ADD RECTIFIER CR20
REMOVE R11 & REPLACE W/ R20

DC. CIRCUIT W/ BATT. CHRG. GEN.



REPLACE S8 WITH JUMPER ON DIESEL MODELS ONLY

NOTES:

1. FUEL SOLENOID CONNECTED TO *3 ON ENGINES NOT EQUIPPED W/ VACUUM SW.
2. IF ENGINE IS EQUIPPED W/ BATTERY CHARGING GEN CONNECTION TO BE PER DETAIL 'A' OR 'B'.
3. CONNECT R1 DIRECTLY TO IGNITION COIL ON ENGINES NOT EQUIPPED W/ VOLTAGE DROPPING RESISTORS.
4. JUMPER FROM *21 TO *32 MUST BE REMOVED WHEN EQUIPPED W/ OVERSPEED SW.
5. USE *10 AWG WIRE W/ 30-0-30 METER & *6 AWG WIRE W/ 100-0-100 METER.

USED ON GAS & GASEOUS FUEL MODELS ONLY.

DETAIL 'B' - (GENERATOR - DELCO-REMY)
NOTE: REMOVE CR17 & LEADS FROM *20 TO *21
NO CONNECTION FROM *36 TO VR1

CHARGE	WAS ORIGINALLY	DATE	CHG'D	CHG. REASON	NO. RECD.	MICROFILM DATA
TOLERANCE ON DIMENSIONS NOT OTHERWISE SPECIFIED						
DECIMAL ± FRACTIONAL ± ANGULAR ±						
REMOVE ALL BURRS BREAK ALL SHARP MACHINED EDGES						
MATERIAL						

12 VOLT ENGINE ELEC. CIRCUIT	
SCHEMATIC DIAGRAM	
SCALE: NONE	MODEL NO.
DATE: 10/5/76	PART NO.
DRW: SWT	CHG'D: Reddy
WINPOWER CORPORATION NEWTON, IOWA 50208	