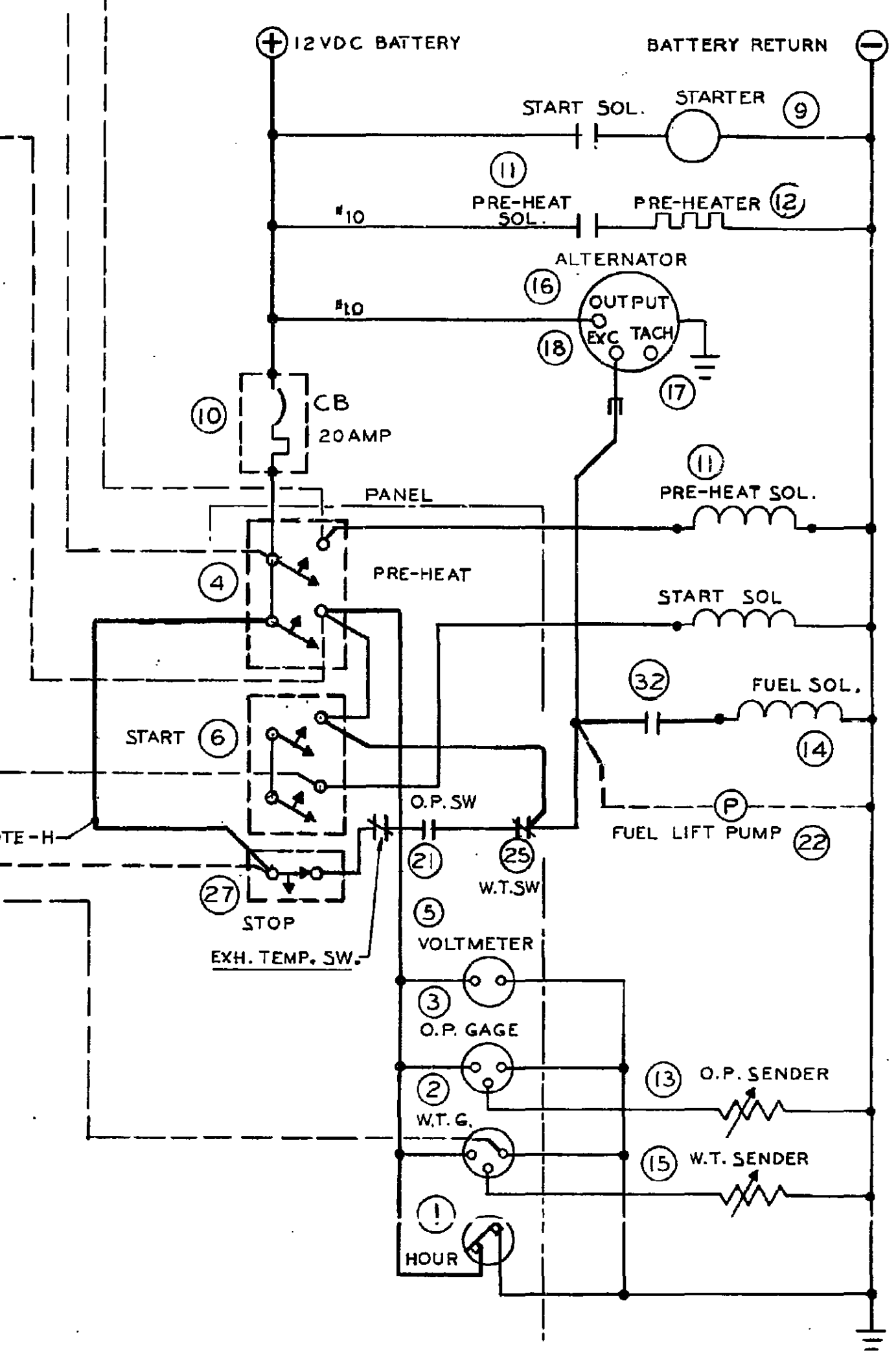
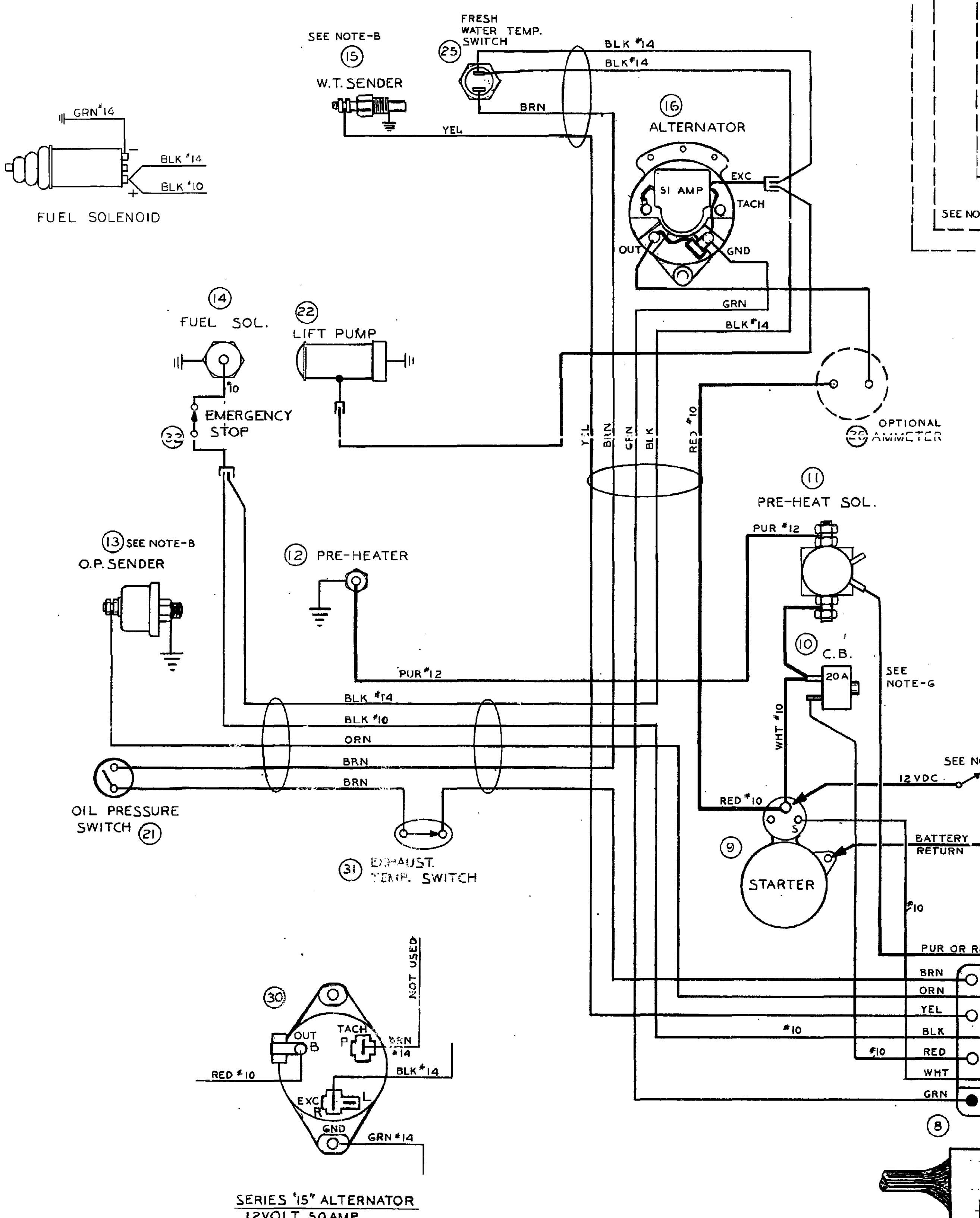


ECO No.	SYM	DATE	REVISION	AUTH
	A	9-24-80	ADDED REMOTE CONTROL PANEL	B.J.S.
	B	11-18-80	ADDED NOTE-J	B.J.S.
	C	12-3-80	ADDED C.BREAKER 20AMP.	B.J.S.
	D	4-27-81	1/4 BLK WAS 1/8 BLK.	B.J.S.
	E	11-19-82	ADDED SERIES TO ALT. REAR VIEW.	B.J.S.
	F	12-18-83	PRE-HEAT - START INTERLOCK	B.J.S.
	G	4-6-83	ADDED EXHAUST TEMP. SWITCH	B.J.S.
	H	4-11-83	FUEL SOLENOID CIRCUIT UNDER ENGINE	B.J.S.
	J	6-27-83	ADDED EMERGENCY STOP SWITCH	B.J.S.
	K	3-16-92	ADDED FUEL 20 AMP. CIRCUIT BREAKER FROM TOP TERM. OF PRE-HEAT SW. TO STOP SW.	D.R.M.

SCHEMATIC DIAGRAM.



WIRING DIAGRAM.



**SERIES '15' ALTERNATOR
12VOLT 50AMP.**

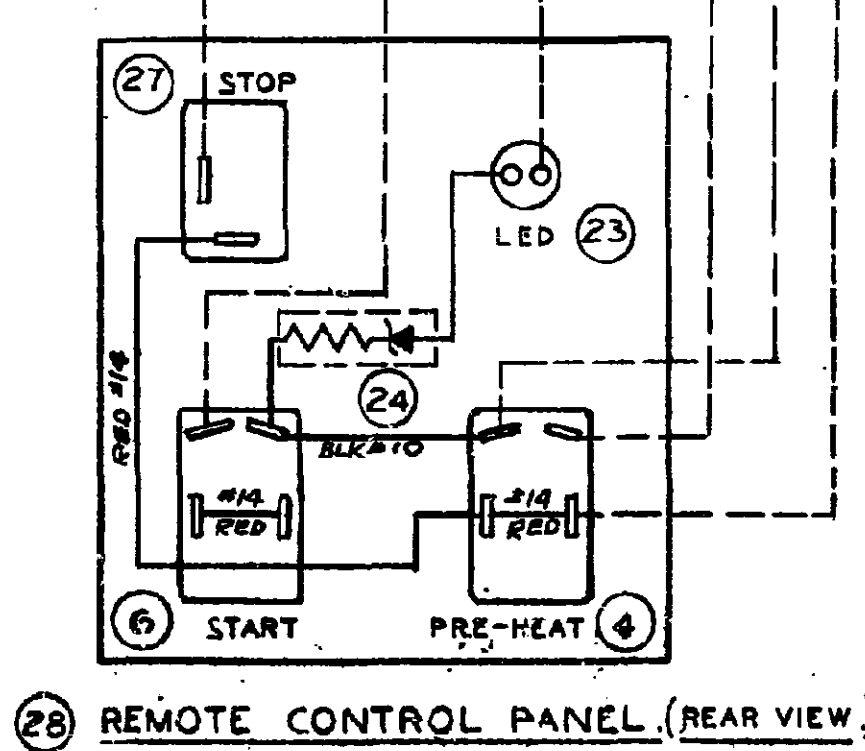
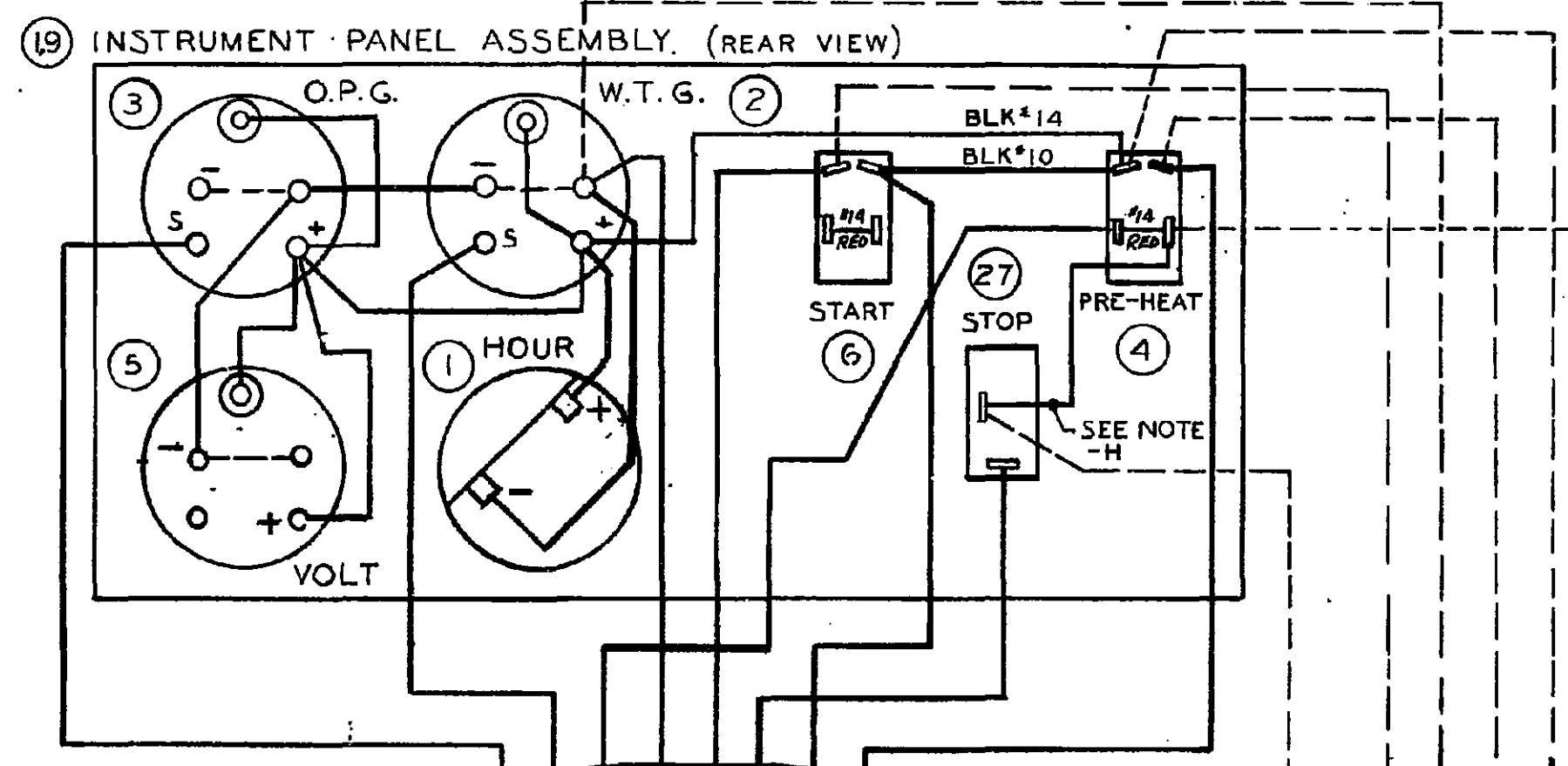
GENERATOR OPERATION.
PREHEAT: DEPRESS PREHEAT SWITCH FROM 15 TO 60 SECONDS AS REQUIRED.
START: DEPRESS BOTH PREHEAT AND START SWITCHES (PREHEAT ALSO OVERRIDES LOW OIL PRESSURE SHUTDOWN CIRCUIT).
WHEN GENERATOR STARTS, RELEASE START SWITCH ONLY. CONTINUE HOLDING PREHEAT SWITCH FOR A FEW SECONDS (UNTIL OIL PRESSURE REACHES 20 PSI).
STOP: DEPRESS STOP SWITCH UNTIL THE GENERATOR STOPS COMPLETELY.

NOTES:

NOTES ON BUILDER/OWNERS RESPONSIBILITY.
 (A) AN ON-OFF SWITCH SHOULD BE INSTALLED SOMEWHERE IN THIS CIRCUIT TO DISCONNECT THE STARTER FROM THE BATTERY IN AN EMERGENCY. WHEN LEAVING THE BOAT, 12 VOLT DIESEL ENGINE STARTERS TYPICALLY DRAW 200 TO 300 AMPS WHEN CRANKING. THE DURATION OF INDIVIDUAL CRANKING CYCLES SHOULD NOT EXCEED 30 SECONDS. A SWITCH WITH CONTINUOUS RATING OF 175 AMPS AT 12 VDC WILL NORMALLY SERVE THESE FUNCTIONS, BUT SUCH A SWITCH MUST NEVER BE USED TO MAKE THE STARTER CIRCUIT.

OTHER NOTES:

- (B) WARNING; SENDER CONNECTION: CONTACT WITH B+ MAY DAMAGE SENDER.
- (C) ALL RETURNS ARE THROUGH ENGINE BLOCK.
- (D) FOR WIRING OF AUXILIARY ALTERNATORS SEE THE FOLLOWING DIAGRAMS:
 MOTOROLA 85 AMP, 11232
 MOTOROLA 120 AMP, 11231
 LEECE-NEVILLE 93 AMP, 16535
 LEECE-NEVILLE 105 AMP, 16614
- (E) IF ADDITIONAL PRESSURE SWITCHES ARE REQ'D TO START BOAT ACCESSORIES, A FLEXIBLE HOSE MUST BE RUN FROM THE OIL PRESSURE MANIFOLD TO A NEARBY BULKHEAD AND ALL PRESSURE SWITCHES MOUNTED AT THE BULKHEAD.
- (F) APPLY SILASTIC OR TIGHT WOUND PLASTIC/SPICE ELECTRICAL TAPE AROUND CONNECTORS CONNECTED.
- (G) CAUTION: THIS PRODUCT IS PROTECTED BY A MANUAL RESET CIRCUIT BREAKER LOCATED NEAR THE STARTER AND AS CLOSE TO THE SOURCE OF CURRENT AS POSSIBLE. EXCESSIVE CURRENT DRAIN ANYWHERE IN THE INSTRUMENT PANEL, WIRING, OR ENGINE WILL CAUSE THE BREAKER TO TRIP. IN THIS EVENT, MOST ENGINE MODELS WILL SHUT DOWN BECAUSE THE OPENED BREAKER DISCONNECTS THEIR FUEL SUPPLY. THEREFORE THE BUILDER/OWNER MUST BE SURE THAT THE INSTRUMENT PANEL, WIRING AND ENGINE ARE INSTALLED TO PREVENT CONTACT BETWEEN ELECTRICAL DEVICES AND SALT WATER.
- (H) REMOVE JUMPER WHEN REMOTE CONTROL PANEL IS USED.
- (I) MOST STARTER SOLENOIDS DRAW 15 AMPS. THEREFORE THE VOLTAGE DROP IN THIS CONDUCTOR MUST BE NO GREATER THAN 10% (IN THE PATH FROM THE STANDARD START SWITCH TO ANY REMOTE SWITCHES AND BACK TO THE STANDARD STARTER SWITCH). IF THIS REQUIRES IMPRACTICALLY LARGE CONDUCTORS, THEN A RELAY MAY BE ADDED TO CONTROL THE STARTER SOLENOID ITSELF.



32	EMERGENCY STOP, SWITCH	1		
31	EXHAUST TEMPERATURE SWITCH	1		
30	ALTERNATOR, 50A.	1		
29	REMOTE CONTROL PANEL	1		
27	SWITCH, STOP	1		
26	AMMETER (OPTIONAL)	1		
25	SWITCH, WATER TEMP. N.C.	1		
24	COMPOSITION ASSY	1		
23	LED, RUN LIGHT	1		
22	LIFT PUMP	1		
21	SWITCH, OIL PRESSURE N.O.	1		
20	PANEL, LESS INSTRUMENTS	1		
19	PANEL, COMPLETE	1		
18	NOT USED SUPPRESSION KIT. ALT.	1		
17	NOT USED TACH. KIT. ALTERNATOR	1		
16	ALTERNATOR, 51 A.	1		
15	SENDER, WATER TEMP.	1		
14	SOLENOID, FUEL	1		
13	SENDER, OIL PRESSURE	1		
12	PRE-HEATER	4		
11	SOLENOID, PRE-HEAT	1		
10	CIRCUIT BREAKER 20AMP	1		
9	STARTER, GENERATOR	1		
8	HARNESS, ENGINE	1		
7	HARNESS, PANEL	1		
6	SWITCH, START	1		
5	VOLTMETER	1		
4	SWITCH, PRE-HEAT	1		
3	OIL PRESSURE GAUGE	1		
2	WATER TEMP. GAUGE	1		
1	HOURMETER	1		

ITEM PART NO. DESCRIPTION QTY ASSY OPTION ASSY

J.H. WESTERBEKE CORP.
 AVON, MA. 02322

THIS WIRING DIAGRAM, GENERATOR SETS WITH TOGGLE SW. CONTROL KIT, PART NO. 24.700.