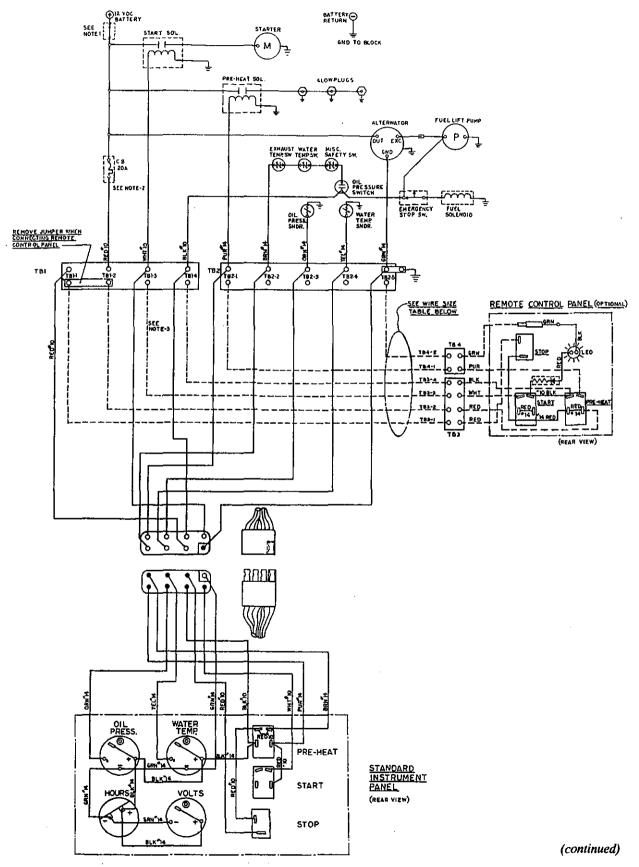
DC ELECTRICAL SYSTEM

BT GENERATOR (EARLY MODELS) WIRING DIAGRAM #34651



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- AN ON-OFF SWITCH SHOULD BE INSTALLED IN THIS CIRCUIT TO DISCONNECT THE STARTER FROM THE BATTERY IN AN EMERGENCY & WHEN LEAVING THE BOAT. TWELVE VOLT DIESEL ENGINE STARTERS TYPICALLY DRAW ZOO TO 300 AMPS WHEN CRANKING.

 THE DURATION OF INDIVIDUAL CRANKING CYCLES SHOULD NOT EXCEED 30 SECONDS.

 A SWITCH WITH A CONTINUOUS RATING OF 175 AMPS AT 12 VOC WILL NORMALLY SERVE THESE FUNCTIONS BUT A SMITCH MUST NEVER BE USED TO MAKE THE STARTER CIRCUIT.
- 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 DRAW ANYWHERE IN THE INSTRUMENT PANEL, WIRING OR
 ENGINE WILL CAUSE THE BREAKER TO TRIP. IN THIS EVENT MOST GENERATORS WILL
 SHUT DOWN BECAUSE THE OPENED BREAKER DISCONNECTS THE FUEL SUPPLY.
 THEREFORE THE BUILDER/OWNER MUST BE SURE THAT THE INSTRUMENT PANEL
 WIRING AND ENGINE ARE WISTALLED TO PREVENT CONTACT BETWEEN
 ELECTRICAL DEVICES AND SALT WATER.
 - (3) MOST STARTER SOLENOIDS DRAW IS 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 SMITCHES 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.

GENERATOR OPERATION

PRE-HEAT : DEPRESS PRE-HEAT SWITCH FOR 15 TO 60 SECONDS AS REQUIRED.

START: DEPRESS BOTH PRE-HEAT AND START SWITCHES

(PRE-HEAT ALSO OVERIDES LOW OIL PRESSURE
SHUTDOWN CIRCUIT).

WHEN GENERATOR STARTS RELEASE START
SWITCH ONLY-CONTINUE HOLDING PRE-HEAT
SWITCH FOR A FEW SECONDS (UNTIL OIL
PRESSURE REACHES 20 PSI).

STOP: DEPRESS STOP SWITCH UNTIL THE GENERATOR STOPS COMPLETELY.

WIRING SIZES TO REMOTE CONTROL TERMINALS 0-16" 16-20' 20-25 25-32 32-40' 40-50' 50-65 TBI-I TO TB3-I *12 410 øЮ. *****9 #8 *****7 ÷c TBI-2 TO TB3-2 14 12 12 10 10 9 8 T81-5 TO T83-5 12 10 10 9 8 7 6 TBI-4 TO TB3-4 16 16 16 16 16 16 16 16 T824 TO T84-1 16 16 16 16 16 16 T82-5 TO T84-2 16 16 16 16 16 16