

PRINTED

1791-G

GENERAL INFORMATION

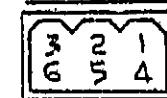
ELECTRICAL SYMBOLS PER E-1737

CAPACITORS = MFD/VOLTS

RESISTORS = OHMS, 1/2 WATT (UNLESS OTHERWISE SPECIFIED)

DIODES = 1 AMP / 400 VOLTS (UNLESS OTHERWISE SPECIFIED)

= COMMON CONNECTION

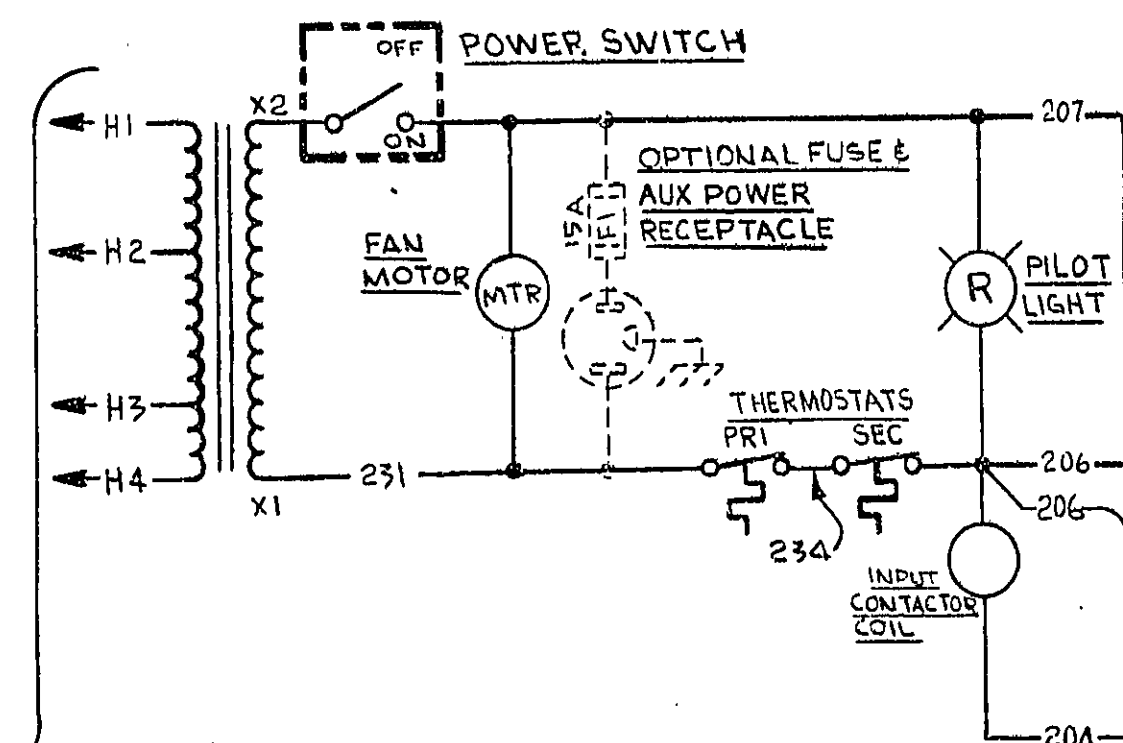


CONNECTOR J1

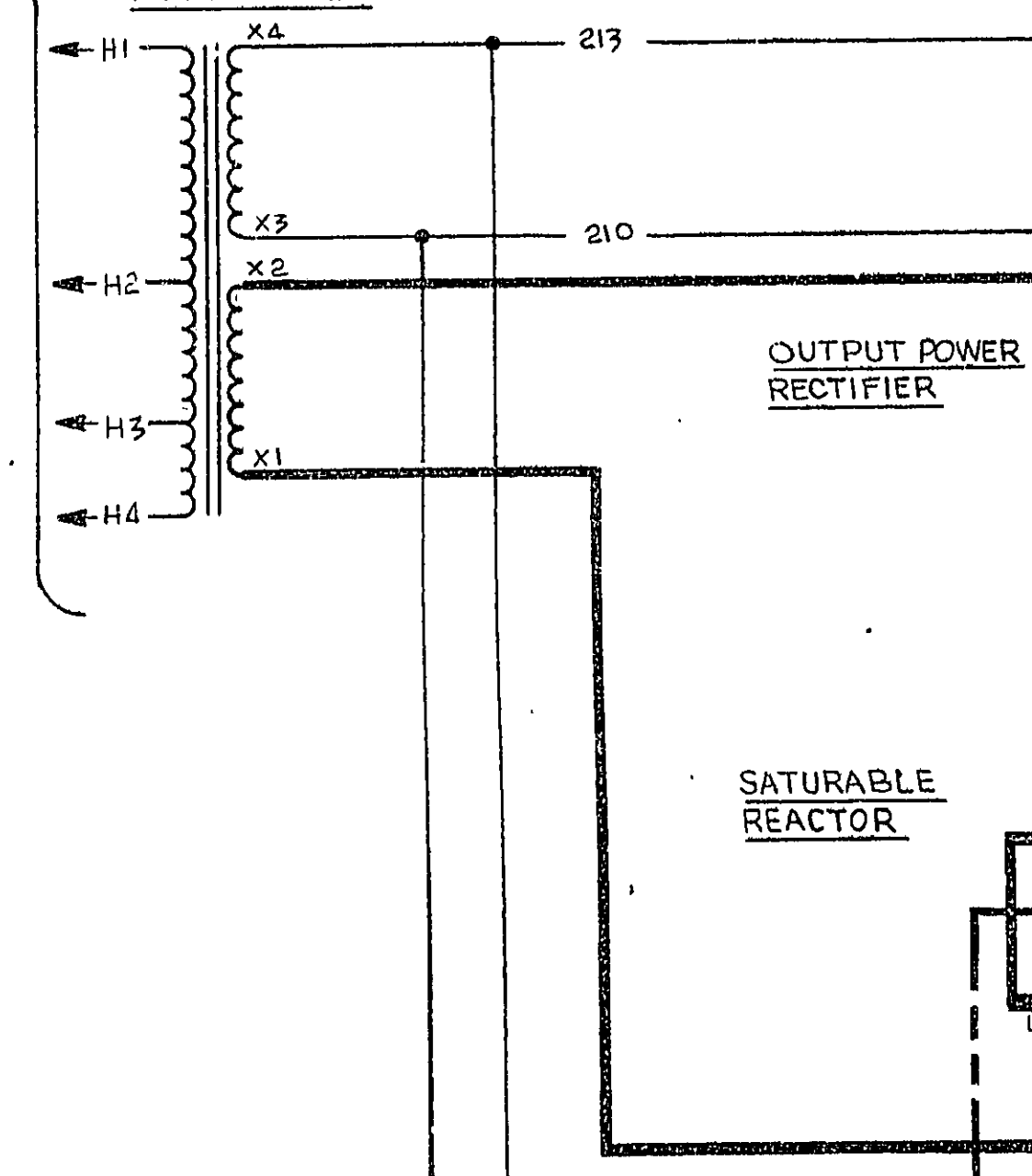
CONNECTORS J2 & J3

(AS VIEWED FROM COMPONENT SIDE OF BOARD)

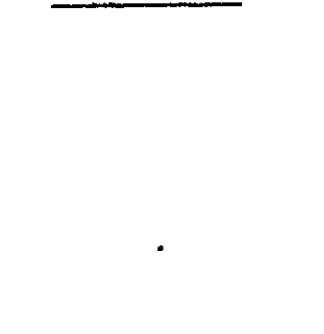
AUXILIARY POWER TRANSFORMER



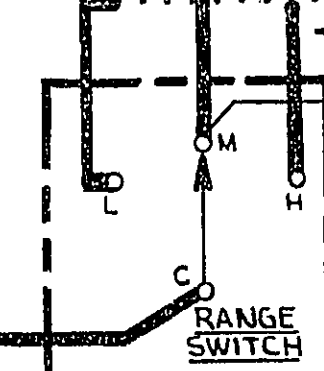
MAIN TRANSFORMER



OUTPUT POWER RECTIFIER

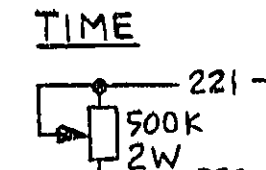


SATURABLE REACTOR

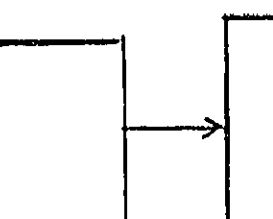


PREFLOW/AFTERFLOW/ARC SENSE PC BOARD

AFTERFLOW TIME



SOLENOID TIMING AND CONTROL



HIGH FREQUENCY TIMING AND CONTROL



POWER SUPPLY



ARC SENSING



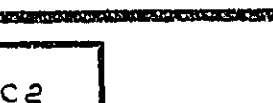
GAS SOLENOID



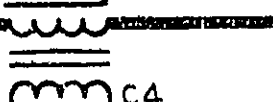
WELD MODE SWITCH



HIGH FREQ BYPASS



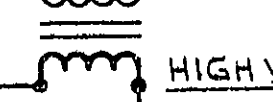
HIGH FREQ TRANSFORMER



SPARK SWITCH



RECHOKE (X2)



HIGH VOLTAGE TRANSFORMER

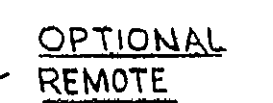


OUTPUT CURRENT CONTROL

REMOTE CONTROL SWITCH



OPTIONAL REMOTE CONTROL



TO INPUT VOLTAGE RECONNECT PANEL AND INPUT LINE CONTACTOR - SEE WIRING DIAGRAM FOR CONNECTIONS AND POWER FACTOR CORRECTION OPTION.

NOTE:

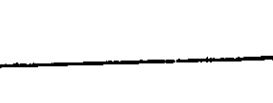
SINCE COMPONENTS OR CIRCUITRY ON A PRINTED CIRCUIT BOARD MAY CHANGE WITHOUT AFFECTING THE INTERCHANGEABILITY OF A COMPLETE BOARD, THIS DIAGRAM MAY NOT SHOW THE EXACT COMPONENTS OR CIRCUITRY OF CONTROLS HAVING A COMMON CODE NUMBER.

OUTPUT CONTROL P.C. BOARD

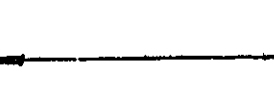
115 VAC INPUT



SCR FIRING CIRCUIT



OUTPUT CONTROL CIRCUIT



THE LINCOLN ELECTRIC CO. 115V TIG 250/250 MACHINE SCHEMATIC G-1641

DATE 1-12-83