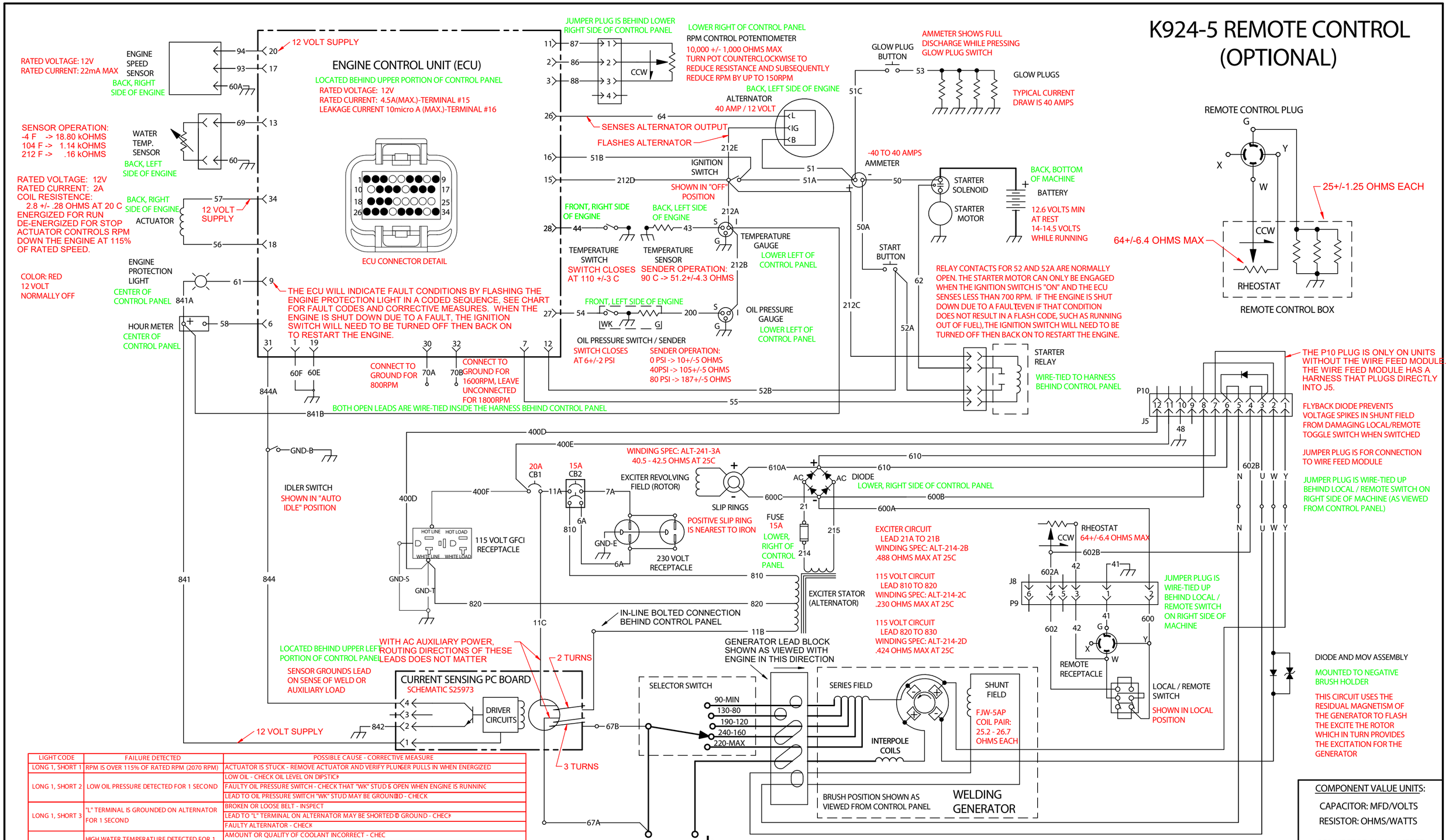
CLASSIC 300D MACHINE SCHEMATIC L13351 REV: A



LIGHT CODE	FAILURE DETECTED	POSSIBLE CAUSE - CORRECTIVE MEASURE
LONG 1, SHORT 1	RPM IS OVER 115% OF RATED RPM (2070 RPM)	ACTUATOR IS STUCK - REMOVE ACTUATOR AND VERIFY PLUNGER PULLS IN WHEN ENERGIZED
LONG 1, SHORT 2	LOW OIL PRESSURE DETECTED FOR 1 SECOND	LOW OIL - CHECK OIL LEVEL ON DIPSTICK
		FAULTY OIL PRESSURE SWITCH - CHECK THAT "WK" STUD IS OPEN WHEN ENGINE IS RUNNING
		LEAD TO OIL PRESSURE SWITCH "WK" STUD MAY BE GROUNDED - CHECK
LONG 1, SHORT 3	"L" TERMINAL IS GROUNDED ON ALTERNATOR FOR 1 SECOND	BROKEN OR LOOSE BELT - INSPECT
		LEAD TO "L" TERMINAL ON ALTERNATOR MAY BE SHORTED TO GROUND - CHECK
		FAULTY ALTERNATOR - CHECK
LONG 1, SHORT 4	HIGH WATER TEMPERATURE DETECTED FOR 1 SECOND	AMOUNT OR QUALITY OF COOLANT INCORRECT - CHECK
		FAULTY WATER TEMPERATURE SWITCH - CHECK THAT "WK" STUD IS OPEN WHEN ENGINE IS NOT RUNNING
		LEAD TO WATER TEMPERATURE SWITCH MAY BE GROUNDED - CHECK
LONG 1, SHORT 5	NOT ENABLED FOR LINCOLN PRODUCTS	
LONG 2, SHORT 1	0 RPM IS DETECTED AND 12V IS DETECTED FROM "L" TERMINAL ON ALTERNATOR	FAULTY RPM SENSOR - CHECK FOR GOOD CONNECTION
		FAULTY ECU - CHECK FOR 12 VOLTS ON SUPPLY LEAD TO RPM SENSOR FROM ECU
LONG 2, SHORT 2	CURRENT TO ACTUATOR IS OUT OF LIMIT	FAULTY ACTUATOR - CHECK FOR PROPER COIL RESISTANCE
		LEADS TO ACTUATOR MAY BE OPEN OR GROUNDED - CHECK
LONG 2, SHORT 3	NOT ENABLED FOR LINCOLN PRODUCTS	
LONG 2, SHORT 4	-50C WATER TEMPERATURE DETECTED	FAULTY WATER TEMPERATURE SENSOR - CHECK FOR PROPER RESISTANCE
		LEAD TO WATER TEMPERATURE SENSOR MAY BE OPEN - CHECK FOR CONTINUITY
LONG 2, SHORT 5	150C WATER TEMPERATURE DETECTED	FAULTY WATER TEMPERATURE SENSOR - CHECK FOR PROPER RESISTANCE
		LEAD TO WATER TEMPERATURE SENSOR MAY BE GROUNDED - CHECK
LONG 2, SHORT 6	0 VOLTS DETECTED FROM "L" TERMINAL ON ALTERNATOR FOR 1 SECOND	LEAD TO "L" TERMINAL ON ALTERNATOR MAY BE OPEN - CHECK FOR CONTINUITY
		BROKEN OR LOOSE BELT - INSPECT
		FAULTY ALTERNATOR - CHECK
LONG 2, SHORT 7	OVER 18 VOLTS DETECTED FROM ALTERNATOR	INCORRECT BATTERY - INSPECT
		FAULTY ALTERNATOR - CHECK
LONG 2, SHORT 8	LESS THAN 4 VOLTS TO RPM SENSOR AND/OR ACTUATOR SENSED BY ECU	FAULTY ECU - CHECK FOR 12 VOLTS ON LEADS TO RPM SENSOR AND ACTUATOR FROM ECU

LEAD COLOR CODE:

B-BLACK OR GRAY
G-GREEN
R-RED OR PINK
U-BLUE
W-WHITE
Y-YELLOW
N-BROWN

LABELS:

COMMON
FRAME GROUND
EARTH GROUND

COMPONENT VALUE UNITS:

CAPACITOR: MFD/VOLTS
RESISTOR: OHMS/WATTS

CONNECTOR PIN NUMBERS:

EX. 12 PIN CONNECTOR

1 2 → 6
7 → 12 LATCH

VIEW OF CONNECTOR ON PC BOARD

12/21