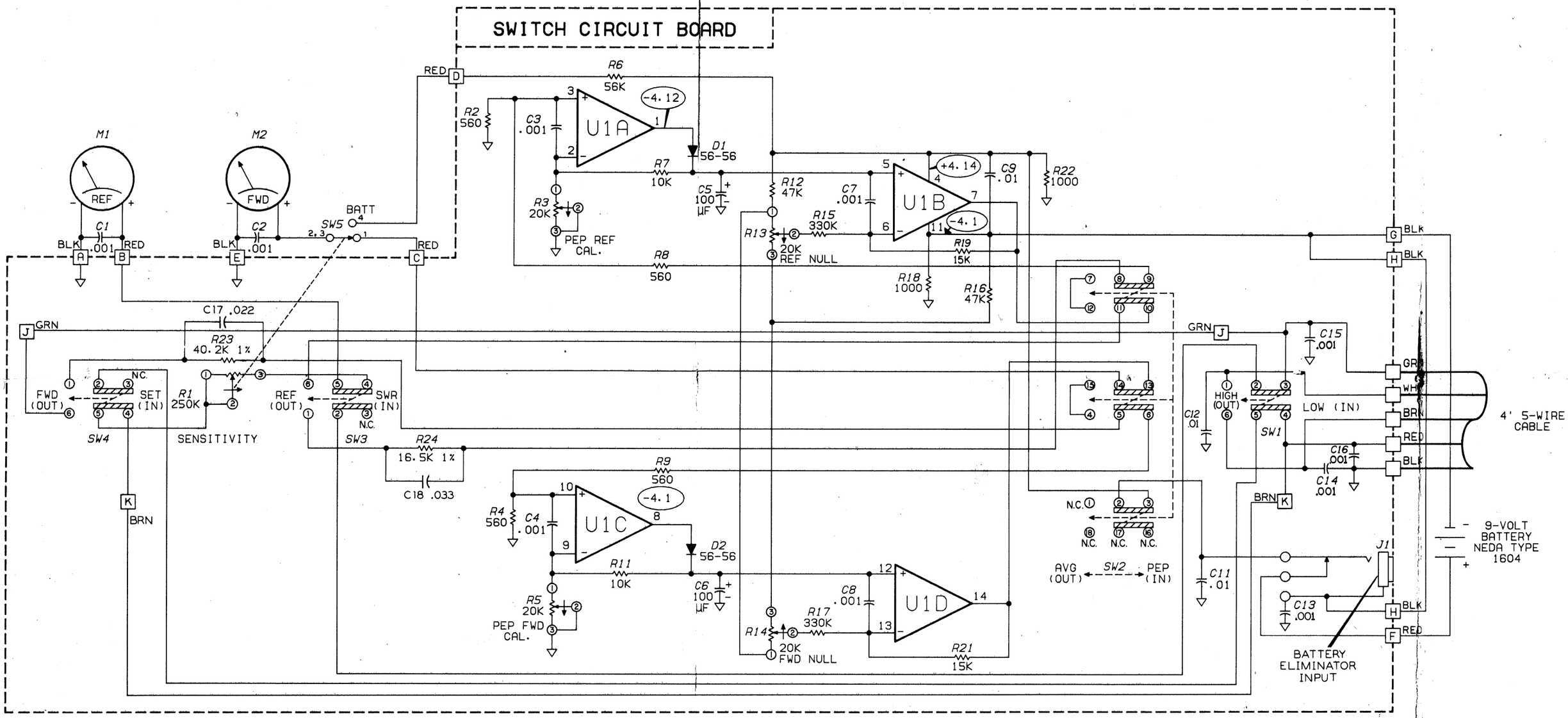
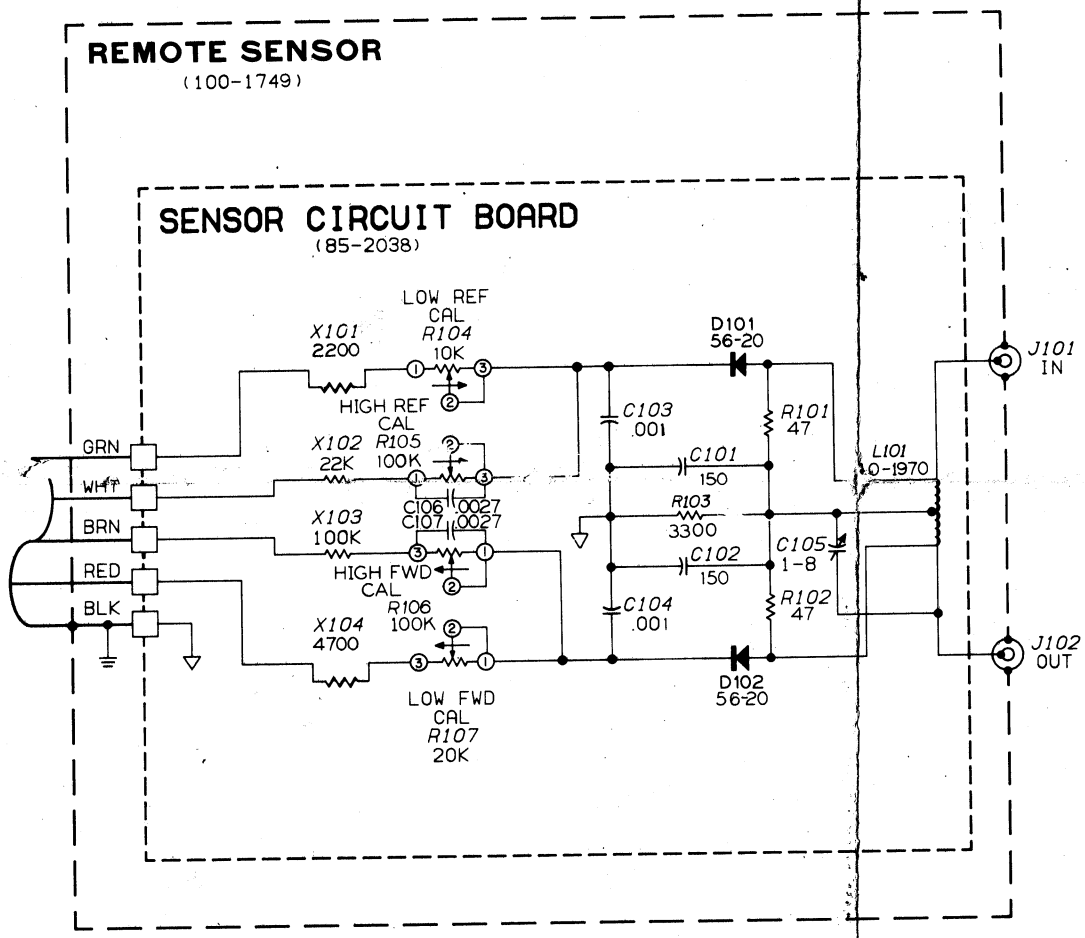

SWITCH CIRCUIT BOARD
M1
REF
M2
FWD
C1 .001
C2 .001
BLK
RED
BATT
SW5
2,3
4
1
R6 56K
R2 560
C3 .001
U1A
-4.12
D1 56-56
R7 10K
C5 100 µF
R3 20K
PEP REF CAL.
R8 560
R12 47K
R13 20K REF NULL
C7 .001
U1B
+4.14
-4.1
C9 .01
R22 1000
R15 330K
R19 15K
R18 1000
R16 47K
C17 .022
R23 40.2K 1%
GRN
FWD (OUT)
NC.
SET (IN)
R1 250K
SENSITIVITY
SW4
REF (OUT)
SWR (IN)
N.C.
SW3
R24 16.5K 1%
C18 .033
BRN
R9 560
R4 560
C4 .001
U1C
D2 56-56
R11 10K
C6 100 µF
R5 20K
PEP FWD CAL.
R14 20K FWD NULL
C8 .001
U1D
R17 330K
R21 15K
N.C.
AVG (OUT)
SW2
PEP (IN)
C11 .01
C12 .01
HIGH (OUT)
LOW (IN)
SW1
C15 .001
C16 .001
C14 .001
C13 .001
J1
BATTERY ELIMINATOR INPUT
9-VOLT BATTERY NEDA TYPE 1604
4' 5-WIRE CABLE
WHT
GRN
BRN
RED
BLK



SCHEMATIC OF THE HEATHKIT® HF DUAL WATTMETER MODEL HM-2140-A

NOTES:

1. ALL RESISTOR VALUES ARE IN OHMS (Ω): (K = 1000).
2. ALL RESISTORS ARE 1/4-WATT, 5% TOLERANCE UNLESS OTHERWISE NOTED.
3. CAPACITOR VALUES LESS THAN 1 ARE IN μF (MICROFARADS). VALUES OF 1 OR GREATER ARE IN pF (PICOFARADS) UNLESS OTHERWISE MARKED.
4. THIS SYMBOL INDICATES A CHASSIS GROUND.
5. THIS SYMBOL INDICATES A CIRCUIT BOARD GROUND.
6. THIS SYMBOL INDICATES A CIRCUIT BOARD WIRE CONNECTION.
7. THIS SYMBOL INDICATES THE CLOCKWISE ROTATION OF A CONTROL.
8. THIS SYMBOL INDICATES A DC VOLTAGE MEASURED FROM THE POINT INDICATED TO CIRCUIT BOARD GROUND.

Part of 595-2969-02

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