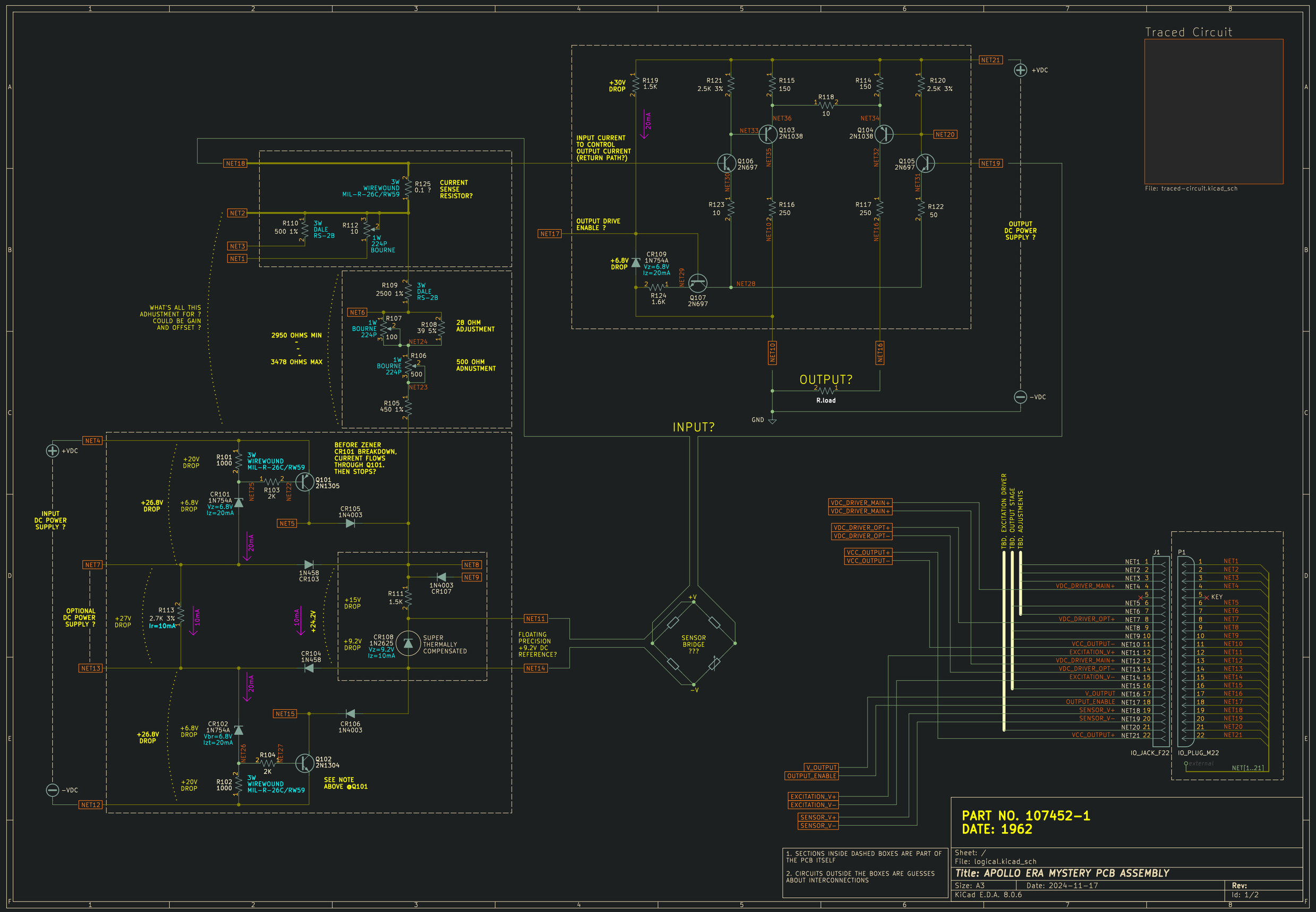
Traced Circuit
File: traced-circuit.kicad_sch
+30V DROP
R119 1.5K
R121 2.5K 3%
R115 150
R118 10
R114 150
R120 2.5K 3%
NET21
+VDC
NET36
NET34
NET33
Q103 2N1038
Q104 2N1038
NET20
20mA
INPUT CURRENT TO CONTROL OUTPUT CURRENT (RETURN PATH?)
Q106 2N697
Q105 2N697
NET19
NET35
NET32
NET30
NET31
R123 10
R116 250
R117 250
R122 50
NET17
OUTPUT DRIVE ENABLE ?
OUTPUT DC POWER SUPPLY ?
+6.8V DROP
CR109 1N754A Vz=6.8V Iz=20mA
NET29
R124 1.6K
Q107 2N697
NET28
NET10
NET16
OUTPUT?
R.load
-VDC
GND
INPUT?
NET18
3W WIREWOUND MIL-R-26C/RW59
R125 0.1 ?
CURRENT SENSE RESISTOR?
NET2
R110 500 1%
3W DALE RS-2B
R112 10
1W 224P BOURNE
NET3
NET1
WHAT'S ALL THIS ADHUSTMENT FOR ? COULD BE GAIN AND OFFSET ?
R109 2500 1%
3W DALE RS-2B
NET6
R107 100
1W BOURNE 224P
R108 39 5%
28 OHM ADJUSTMENT
NET24
2950 OHMS MIN
-
-
3478 OHMS MAX
R106 500
1W BOURNE 224P
500 OHM ADNUSTMENT
NET23
R105 450 1%
NET4
+VDC
+20V DROP
R101 1000
3W WIREWOUND MIL-R-26C/RW59
BEFORE ZENER CR101 BREAKDOWN, CURRENT FLOWS THROUGH Q101. THEN STOPS?
Q101 2N1305
R103 2K
NET25
NET22
CR101 1N754A Vz=6.8V Iz=20mA
+26.8V DROP
+6.8V DROP
CR105 1N4003
NET5
INPUT DC POWER SUPPLY ?
20mA
NET7
1N458 CR103
NET8
NET9
1N4003 CR107
R111 1.5K
+15V DROP
OPTIONAL DC POWER SUPPLY ?
+27V DROP
R113 2.7K 3% Ir=10mA
10mA
+24.2V
CR108 1N2625 Vz=9.2V Iz=10mA
SUPER THERMALLY COMPENSATED
+9.2V DROP
CR104 1N458
NET13
NET11
NET14
FLOATING PRECISION +9.2V DC REFERENCE?
SENSOR BRIDGE ???
+V
-V
NET15
CR106 1N4003
CR102 1N754A Vbr=6.8V Izt=20mA
NET26
R104 2K
NET27
Q102 2N1304
SEE NOTE ABOVE ●Q101
R102 1000
3W WIREWOUND MIL-R-26C/RW59
NET12
-VDC
VDC_DRIVER_MAIN+
VDC_DRIVER_OPT+
VDC_DRIVER_OPT-
VCC_OUTPUT+
VCC_OUTPUT-
V_OUTPUT
OUTPUT_ENABLE
EXCITATION_V+
EXCITATION_V-
SENSOR_V+
SENSOR_V-
TBD. EXCITATION DRIVER
TBD. OUTPUT STAGE
TBD. ADJUSTMENTS
J1
P1
NET1 1
NET2 2
NET3 3
VDC_DRIVER_MAIN+ NET4 4
5 KEY
NET5 6
NET6 7
VDC_DRIVER_OPT+ NET7 8
NET8 9
NET9 10
VCC_OUTPUT- NET10 11
EXCITATION_V+ NET11 12
VDC_DRIVER_MAIN+ NET12 13
VDC_DRIVER_OPT- NET13 14
EXCITATION_V- NET14 15
NET15 16
V_OUTPUT NET16 17
OUTPUT_ENABLE NET17 18
SENSOR_V+ NET18 19
SENSOR_V- NET19 20
NET20 21
VCC_OUTPUT+ NET21 22
IO_JACK_F22
IO_PLUG_M22
external
NET[1..21]
1. SECTIONS INSIDE DASHED BOXES ARE PART OF THE PCB ITSELF
2. CIRCUITS OUTSIDE THE BOXES ARE GUESSES ABOUT INTERCONNECTIONS
PART NO. 107452-1
DATE: 1962
Sheet: /
File: logical.kicad_sch
Title: APOLLO ERA MYSTERY PCB ASSEMBLY
Size: A3
Date: 2024-11-17
Rev:
KiCad E.D.A. 8.0.6
Id: 1/2