THERMOCOUPLE WIRE x16
CHT1
CHT2
CHT3
CHT4
EGT1
EGT2
EGT3
EGT4
OIL TEMP
[WIRE] x2
[WIRE] x2
OIL PRESS
ALT CRNT SENSOR
FIREWALL
GEA 24
FUEL FLOW
FUEL LEVEL
22ga (fuel probe box red wire)
TANK
BLK
FH-10
Garmin Components:
GDU 450 - 7" Display
GEA 24 - Engine Interface
GSU 25C - ADAHRS
GMU 11 - Magnetometer
GPS 20A - GPS Position Source
GTR 20 - Radio
GTX 45R - Transponder
GSA 28 - Autopilot Servo
GTP 59 - OAT Probe
QUESTIONS:
-Is crowbar OV setup correct?!
---Instead of light can it be a GDU annunciator?
-Should I Ground voltage regulator to firewall or to "-" on filter capacitor?
Things not depicted yet:
-Turbo cooler
-Aux audio
STICK
A/P DISCONNECT
PILOT PTT
BLK
24 awg
PANEL
COPILOT PTT
BLK
SECONDARY IGNITION/ALTERNATOR
LOWER FRONT PLUGS
TOP TRIG
RED
ORANGE
B
A
ENG
FWL
ALT
R-COIL
L-COIL
RED
ORANGE
C
D
ENG
BOT TRIG
FWL
LOWER REAR PLUGS
VOLTAGE REGULATOR
8 awg TACH SENSE WIRE
SPARE
UTILITY BUS (FH-6)
3A
22 awg
iPad Dock
?
SEAT HEAT
GSA 28 PITCH
22 awg
3A
GSA 28 ROLL
22 awg
3A
?
AUX POWER JACK
BLK
VHF
GPS
GTP 59
GDU 450 (1.25A)
22 awg
5A
GSU 25C (0.2A)
22 awg
2A
GPS 20A (0.2A)
22 awg
3A
GMU 11 (0.1A)
24 awg
2A
FH-8 (typ. load=2.32A)
1A
22 awg
FUEL PROBE (0.1A)
2A
22 awg
GEA 24 (0.43A)
1A
24 awg
ELT (0.04A)
ELT
SPARE
PANEL
???
UTILITY
???
COMM
25A (MAIN???)
ALT WARN LT
1A
INLINE
BLK
COILS SWITCH
10A
SPARE
SPARE
SPARE
SPARE
COMM BUS (FH-6)
7.5A
20 awg
GTR 20
3A
22 awg x2
GTX 45R
TRANSPONDER
5A
IPS-12v-4a Power Stabilizer
BLK
FILTER CAP
ALTERNATOR CONTROL
TO ALT WARNING LIGHT
NC
NO
COM
BUS POWER
20 awg FROM ALT SWITCH
S704-1 ALT RELAY
86
30
red
CROWBAR
blk
85
1N4005 DIODE
FWL
Turbo Cooler
FROM MASTER SWITCH
POWER SUPPLY
6 awg
MASTER CONTACTOR
STARTER
SOL
ENG
BATTERY
OFF-BATT-BATT/ALT
6
5
4
3
2
1
2A
Stein LT-003
BLK
10A
MAIN BUS (FH-12)
12A
SPARE
SPARE
SPARE
5A
?? awg
3A?
22 awg (?)
3A
22 awg
3A
22 awg
5A
18 awg
PANEL
FLAPS
INTERIOR LTS
NAV / POS
STROBE
LDG LTS
INTERIOR LIGHTS
BLK
LOW VOLTAGE PANEL LIGHT
PANEL
TURBO COOLER
SPDT Switch On/Off/On
Thermostat
12V+
10 AMP Fuse/ Breaker
12V LED
Fan
Pump
Wire Diagram
PRIMARY IGNITION
UPPER FRONT PLUGS
FLYWHEEL
UPPER REAR PLUGS
ENG GROUND STRAP
10 awg
BOLT
GROUND BLOCK
ENG START
KEY SWITCH(???)
10A
MAGS SWITCH
Molex
Molex
BLK
R Y B Bk
+ -
LDG LT
- +
Bk B Y R
LDG LT
LEFT WING
RIGHT WING

Title: Waiex-B #21 Electrical System		
Author: Chris Paegelow		
File: C:\Users\chris\Documents\Sonex ... Rev1.2.dsn		Document
Revision: 1.2	Date: 4/8/2020	Sheets: 1 of 1