Config serial port 5 to
"CO DETECTOR"

Ground Shield
at PFD

GD-40 CO Detector
1 Serial Tx
2 Serial Rx
Audio Out
LED 1 (Red)
LED 2 (Green)
Audio
3 Button
4 Power
5 Ground

C.O. Test/Reset

Steinair Inc.
Avionics Interconnects
Builder: Walter Tondu
Technician: Nick Millard
Drawing Date: 9/5/2015
Print Date: 4/17/2015
Rev. Notes:

GMA240 J1
9 Com 1 Audio Hi
10 Com 1 LO
11 Com 1 Mic Hi
12 Com 1 Mic Key
13 Com 2 Audio Hi
14 Com 2 Lo
15 Com 2 Mic Hi
30 Com 2 Mic Key
17 Nav 1 Audio Hi
18 Nav 1 Lo
19 Nav 2 Audio Hi
20 Nav 2 Lo
31 Alert 1 Hi
32 Lo
44 Alert 2 Hi
43 Lo
Aux 1 Audio Hi
Aux 1 Lo
Aux 2 Audio Hi
Aux 2 Lo
33 Pilot Mic Hi
34 Pilot Mic PTT
35 Pilot Mic Lo
41 Pass. Phones R
40 Pass. Phone L
42 Pass. Phone Lo

J2
31 Pilot Phones R
16 Pilot Phones L
1 Pilot Phones Lo
4 CoPilot Phones R
3 CoPilot Phones L
2 CoPilot Phones Lo
35 Pass. Mic Hi
36 Pass. Mic Lo
37 Pass. 2 Mic Hi
38 Pass. 2 Mic Lo
32 Copilot Mic Hi
33 CoPilot Mic PTT
34 CoPilot Mic Lo
15 Alert 3 Hi
29 Failsafe Warn Audio Hi
24 Ent. 1 Audio R
23 Ent. 1 Audio L
25 Ent. 1 Audio Lo
27 Ent. 2 Audio R
26 Ent. 2 Audio L
28 Ent. Audio Lo
10 Ground
11 Ground
8 11-33 VDC
9 11-33 VDC
20 Swap
5 Lights Lo
6 14v Lights Hi
7 14v Lights Hi

MP3 Audio

GTR 20 P2001
10 Receiver Audio Out Hi
29 Receiver Audio Out Lo
17 Pilot Mic Hi
35 TXKey 1
36 Pilot Mic Lo
13 Pilot Headset Right
14 Pilot Headset Left
33 Pilot Headset Lo
16 Copilot Mic Hi
15 Copilot PTT
34 Copilot Mic Lo
11 CoPilot Headset Right
12 Copilot Headset Left
30 Copilot Headset Lo
5 Transmit Interlock in
4 Transmit Interlock Out
24 RS-232 In
2 Disc 1
22 Disc 2
6 CAN LO
7 CAN Hi
32 Aux 1 Audio In
31 Aux 1 Audio Lo
9 Aux 2 Audio In
28 Aux 2 Audio Lo
18 Music 1 In Right
19 Music 1 In Left
37 Music 1 In Lo
1 POWER
20 GROUND
3 Lighting Bus

GTN 650 P1003
7 Com Audio Hi
18 Com Audio Lo
5 Com Mic Audio Hi
11 Com Mic Key
20 Com Mic Audio Lo
27 Com Remote Transfer
30 POWER
43 POWER
44 POWER
37 GROUND
38 GROUND
40 GROUND

P1001
19 POWER 1
20 POWER 1
77 GROUND
78 GROUND
4 Audio Out Hi
23 Audio Out Lo
8 GPS RS-232 Out 1
7 GPS RS-232 In 1
46 GND Serial 1
7 GPS RS-232 Out 2
26 GPS RS-232 In 2
45 GND Serial 2
6 GPS RS-232 Out 3
25 GPS RS-232 In 3
44 GND Serial 3/4
5 GPS RS-232 Out 4
24 GPS RS-232 In 4
10 GPS ARINC 429 OUT 1A
29 GPS ARINC 429 OUT 1B
9 GPS ARINC 429 OUT 2A
28 GPS ARINC 429 OUT 2B
48 GPS ARINC 429 IN 1A
67 GPS ARINC 429 IN 1B
47 GPS ARINC 429 IN 2A
66 GPS ARINC 429 IN 2B
75 Traffic Test
76 Traffic Standby
49 Main + Left
68 Main + Right
11 Main + To
30 Main + From
50 Main Lateral + Flag
69 Main Lateral – Flag
12 Main + Up
31 Main + Down
51 Main Vertical + Flag
70 Main Vertical - Flag
56 ILS/GPS Approach
62 Config Mod Data
63 Config Mod Clock
64 Config Mod Ground
65 Config Mod Power
43 Fan Ground
58 Fan Tach In
59 Fan Power

P1004
16 VOR/ILS Audio Hi
17 VOR/ILS Audio Lo
28 VLOC Remote Xfer
29 ILS Energize
24 VOR/ILS Anncc Out A
23 VOR/ILS Anncc Out B
35 VOR/ILS Anncc In B
36 VOR/ILS Anncc In A
51 Power
52 Power
60 Ground
61 Ground
62 Ground

P1002
3 Suspend Annun
4 Ethernet Out 4A
5 Ethernet Out 4B
6 Ethernet In 1A
7 Ethernet In 1B
8 Ethernet Out 1A
9 Ethernet Out 1B
10 System ID Program
13 Ethernet In 4A
14 Ethernet In 4B
15 Ethernet In 2A
16 Ethernet In 2B
17 Ethernet Out 2A
18 Ethernet Out 2B
23 Ethernet In 3A
24 Ethernet In 3B
25 Ethernet Out 3A
26 Ethernet Out 3B

Config Module
Red
Wht
Blk
Yel

Fan

GDU 460 P4602
32 Power 1
31 Power 2
16 Ground
15 Ground
10 Program 1
9 Program 2
25 Program 3
42 Program 4
27 Signal Ground
47 RS-232 IN 1
48 RS-232 OUT 1
37 Signal Ground
14 RS-232 IN 2
30 RS-232 OUT 2
34 Signal Ground
29 RS-232 IN 3
13 RS-232 OUT 3
36 Signal Ground
23 RS-232 IN 4
40 RS-232 OUT 4
44 Signal Ground
24 RS-232 IN 5
41 RS-232 OUT 5
35 Signal Ground
46 CAN BUS HI
45 CAN BUS LO
28 CAN BUS Termination
1 Mono Audio Hi
18 Mono Audio LO
3 Audio Left OUT
19 Audio Right OUT
2 Stereo LO
17 Config Mod Power
33 Config Mod Clock
49 Config Mod Ground
50 Config Mod Data
43 14v Lighting Bus

P4601
4 RS 232 TX
5 RS 232 RX

TCW IBBS
15 FEMALE D-SUB
1 BKUP PWR MSTR Switch
3 Low Voltage WARN
5 Main AC Bus (Charge Pwr)
9 Ground
10 Ground
11 Ground
12 Battery Output
13 Battery Output
14 Battery Output
15 Battery Output

BKUP MSTR

GEA 24 J244
40 DISCRETE IN 1

GI 260 AOA
Blue Can Hi
Violet Can Lo
Gray Lighting Bus
White Audio Mono Out
Green Audio Mono Gnd
Yel RX
Brown TX
Red Power
Black Ground

DB9
P M
1 1
2 2
3 3
5 5
9 9
7 7
6 6

GDU 465 P4602
32 Power 1
31 Power 2
16 Ground
15 Ground
13 Program 1
9 Program 2
25 Program 3
42 Program 4
27 Signal Ground
47 RS-232 IN 1
48 RS-232 OUT 1
37 Signal Ground
14 RS-232 IN 2
30 RS-232 OUT 2
34 Signal Ground
29 RS-232 IN 3
13 RS-232 OUT 3
36 Signal Ground
23 RS-232 IN 4
40 RS-232 OUT 4
44 Signal Ground
24 RS-232 IN 5
41 RS-232 OUT 5
35 Signal Ground
46 CAN BUS HI
45 CAN BUS LO
28 CAN BUS Termination
1 Mono Audio Hi
18 Mono Audio LO
3 Audio Left OUT
19 Audio Right OUT
2 Stereo LO
17 Config Mod Power
33 Config Mod Clock
49 Config Mod Ground
50 Config Mod Data
43 14v Lighting Bus

GDL39R DB9
1 Discrete Input
2 TX-A
3 RX-A
4 ID Pin
5 Ground
6 TX-B
7 RX-B
8 Ground
9 Power

GMC 305 J3053
7 Power 1
2 Power 2
5 Ground
15 Ground
10 Remote Power Off
1 RS-232 Out 1
2 RS-232 In 1
3 RS-322 Out 2
4 RS-232 In 2
6 Signal Ground
8 Signal Ground
11 Lighting Bus Hi
12 Lighting Buss Lo

GAD 29 J291
1 CAN Hi
2 CAN Lo
4 RS-232 RX
5 RS-232 TX
7 Power 1
6 Ground
8 Power 2
9 Ground

J292
14 Ground
20 Ground
3 RS-232 In 2
15 RS-232 Out 2
23 ARINC In 1A
11 ARINC In 1B
24 Arinc Out 1A
25
12 Arinc Out 1B
13
22 ARINC In 2A
10 ARINC In 2B
18 Arinc Out 2A
19
6
7 Arinc Out 2B
17 ARINC In 3A
5 ARINC In 3B
16 ARINC In 4A
4 ARINC In 4B

GEA 24 J291
1 CAN Hi
2 CAN Lo
7 Power 1
6 Ground
8 Power 2
9 Ground

GSU 25 J251
1 CAN Hi
2 CAN Lo
4 RS-232 RX
5 RS-232 TX
7 Power 1
6 Ground
8 Power 2
9 Ground

J252
1 OAT Power
2 OAT Hi
3 OAT Lo
4 Unit ID Ground
5 Unit ID
9 RS-232 Out 3
10 RS-232 In 3
11 Ground
14 Ground
13 RS-485 In B
12 RS-485 In A
15 RS-232 Out 2
6 Magnetometer Power
7 Magnetometer Ground

GTP 59
Power
Sence
Low

GMU 22 P441
1 Signal Ground
2 Magn RS-485 Out B
4 Magn RS-485 Out A
8 Magn RS-232 In
9 Magn Power
6 Magn Ground
3 Signal Ground

GTX-23ES P2301
1 POWER 1
42 POWER 1
39 GROUND
22 RS-232 IN 1
23 RS-232 OUT 1
43 Signal Ground
24 RS-232 IN 2
50 Signal Ground
12 External Ident

TO/GA
Spliced With
J244 Pin 41

GEA 24 J244
41 DISCRETE IN 2

ROLL 13FT
GSA 28 J281
10 Power
9 Ground
1 CAN Hi
2 CAN Lo
3 CAN Term 1
4 CAN Term 2
8 RS-232 In
7 RS-232 Out
11 Trim In 1
12 Trim In 2
13 Trim Out 1
14 Trim Out 2
15 A/P Disconnect

DB15
P M
10 10
9 9
1 1
2 2
3 3
6 6
8 8
7 7
11 11
12 12
13 13
14 14
15 15

ACK E-04
ELT
For complete wiring information refer to ACK Installation/Operation Manual.

From Ray Allen stick grip or trim relay deck power output or VP trim motor power outputs

Out to trim servo motor

PITCH 13 FT
GSA 28 J281
10 Power
9 Ground
1 CAN Hi
2 CAN Lo
3 CAN Term 1
4 CAN Term 2
5 Pitch ID
8 Pitch ID
6 Yaw ID
7 Yaw ID
11 Trim In 1
12 Trim In 2
13 Trim Out 1
14 Trim Out 2
15 A/P Disconnect

DB15
P M
10 10
9 9
1 1
2 2
3 3
6 6
8 8
7 7
11 11
12 12
13 13
14 14
15 15

From Ray Allen stick grip or trim relay deck power output or VP trim motor power outputs

Out to trim servo motor

J243 F
GEA 24 J243
SVDC XDUCER PWR 4
FUEL PRESS HI 2
FUEL PRESS LO 1
SVDC XDUCER PWR 15
MANIFOLD PRESS HI 13
MAIFOLD PRESS LO 12
SVDC XDUCER PWR 19
OIL PRESS HI 17
OIL PRESS LO 16
OIL TEMP HI 33
OIL TEMP LO 32
12VDC XDUCER PWR 24
FUEL FLOW 1 23
XDUCER PWR LO 22
12VDC XDUCER PWR 9
RPM 8
XDUCER PWR LO 7
RPM 2 6
Misc Temp HI 31
Misc Temp 1 lo 30
SHUNT 1 HI 37
SHUNT 1 LO 36
SHUNT 2 HI 35
SHUNT 2 LO 34

Fuel Press Sensor
Honeywell TruStability
Red Supply Voltage
Grn Output
Blk Ground

Manifold Press Sensor
Honeywell TruStability
Red Supply Voltage
Grn Output
Blk Ground

Oil Press Sensor
Honeywell TruStability
Red Supply Voltage
Grn Output
Blk Ground

Oil Temp Sensor
EMP 400 PN
Out Hi
Out Lo

Fuel Flow Xducer
Excitation Input
Out Hi
Out Lo/GND

Tach Sensor Mag
Electro Mag
Supply Voltage
Output
Ground

P-Mag
6 Out Hi

Electronic Ignition #1
Out Hi

Main AMPS
.0005 Ω
1A

AUX AMPS
.0005 Ω
1A

Steinair Inc.
GEA 24 Engine Harness
Builder: BB
Technician: AA
Date: 4/17/15

J242 M
GEA 24 J242
CHT 1 HI 24
CHT 1 LO 12
CHT 2 HI 22
CHT 2 LO 10
CHT 3 HI 20
CHT 3 LO 8
CHT 4 HI 18
CHT 4 LO 6
CHT 5 HI 16
CHT 5 LO 4
CHT 6 HI 14
CHT 6 LO 2
EGT 1 HI 25
EGT 1 LO 13
EGT 2 HI 23
EGT 2 LO 11
EGT 3 HI 21
EGT 3 LO 9
EGT 4 HI 19
EGT 4 LO 7
EGT 5 HI 17
EGT 5 LO 5
EGT 6 HI 15
EGT 6 LO 3

J244 F
GEA 24 J244
System ID 1A 1
System ID 1B Gnd 2
System ID 2A 3
System ID 2B Gnd 4
Fuel Qty 1 6
Fuel Qty 1 Gnd 7
Fuel Qty 2 9
Fuel Qty 2 Gnd 10
Fuel Qty 5V 1 5
Fuel Qty 1 6
Fuel Qty 1 Gnd 7
Fuel Qty 5V 2 8
Fuel Qty 2 9
Fuel Qty 2 Gnd 10
Volts 1 Hi 25
Volts 2 Hi 28
GP 1 Hi 5V 18
POS 1 / GP 1 19
GP 1 Lo 20
GP 2 Hi 5V 21
POS 2 / GP 22
GP 2 LO 23
POS 5 Hi 5V 30
POS 5 / Misc Press 31
POS 5 Lo 32
POS 3 Hi 5V 11
POS 3/ GP 3/ Fuel Qty 3 12
POS 3 Lo 13
Discrete In 1 40
Discrete In 2 41
Discrete In 3 42
Discrete In 4 43
Master Warning Discrete Out 1 44
Master Caution Discrete Out 2 45

Fuel Quanity Sender
Fuel Quanity Sender

Elev Trim Position
Aileron Trim Position
Flap position

Molex
Mating connector and contacts supplied
1 2 3 4