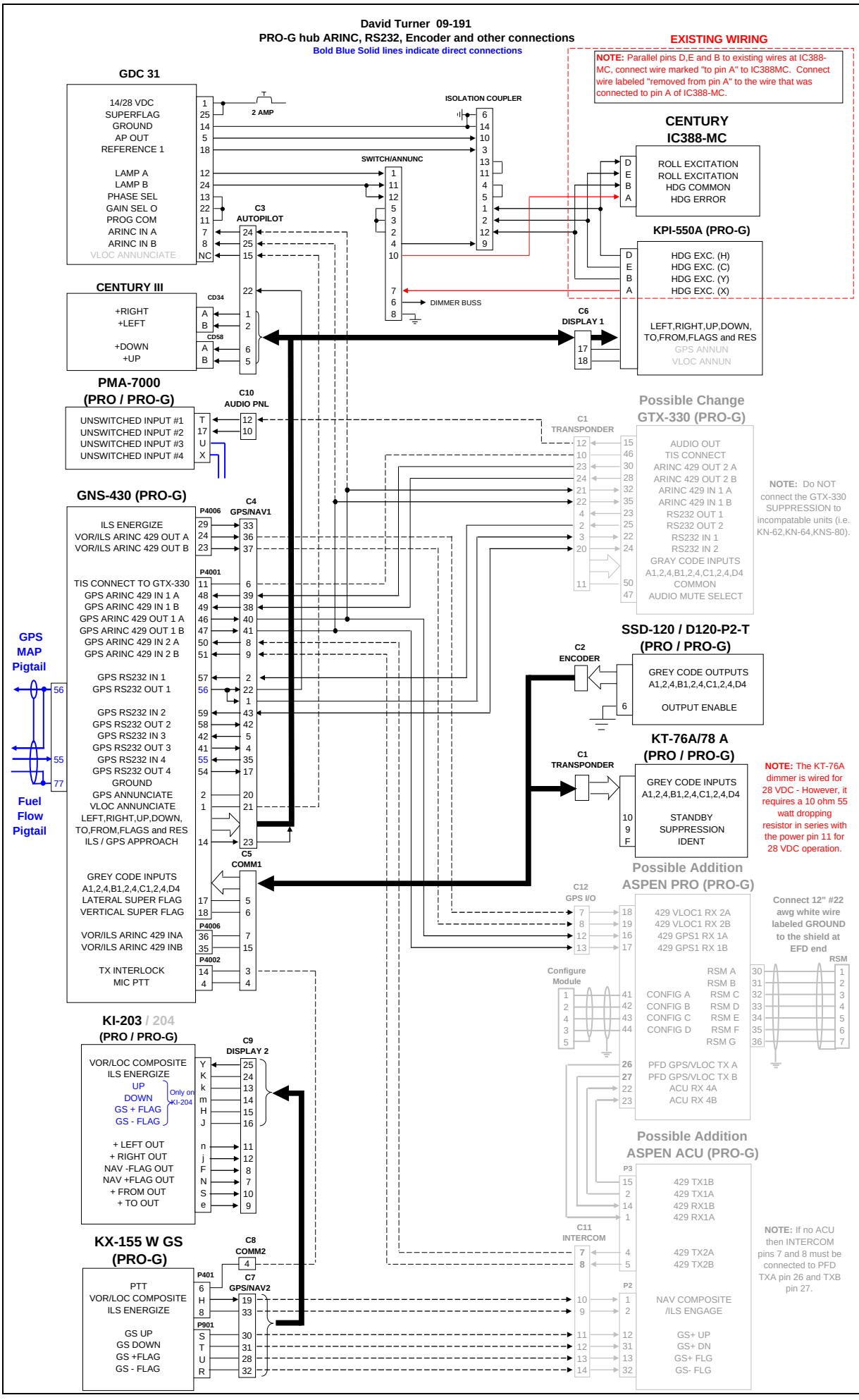

David Turner 09-191
PRO-G hub ARINC, RS232, Encoder and other connections
Bold Blue Solid lines indicate direct connections
EXISTING WIRING
NOTE: Parallel pins D,E and B to existing wires at IC388-MC, connect wire marked "to pin A" to IC388MC. Connect wire labeled "removed from pin A" to the wire that was connected to pin A of IC388-MC.
GDC 31
14/28 VDC
SUPERFLAG
GROUND
AP OUT
REFERENCE 1
LAMP A
LAMP B
PHASE SEL
GAIN SEL O
PROG COM
ARINC IN A
ARINC IN B
VLOC ANNUNCIATE
2 AMP
ISOLATION COUPLER
SWITCH/ANNUNC
C3
AUTOPILOT
CENTURY
IC388-MC
ROLL EXCITATION
ROLL EXCITATION
HDG COMMON
HDG ERROR
KPI-550A (PRO-G)
HDG EXC. (H)
HDG EXC. (C)
HDG EXC. (Y)
HDG EXC. (X)
CENTURY III
+RIGHT
+LEFT
+DOWN
+UP
CD34
CD58
DIMMER BUSS
C6
DISPLAY 1
LEFT,RIGHT,UP,DOWN,
TO,FROM,FLAGS and RES
GPS ANNUN
VLOC ANNUN
PMA-7000
(PRO / PRO-G)
UNSWITCHED INPUT #1
UNSWITCHED INPUT #2
UNSWITCHED INPUT #3
UNSWITCHED INPUT #4
C10
AUDIO PNL
Possible Change
GTX-330 (PRO-G)
C1
TRANSPONDER
AUDIO OUT
TIS CONNECT
ARINC 429 OUT 2 A
ARINC 429 OUT 2 B
ARINC 429 IN 1 A
ARINC 429 IN 1 B
RS232 OUT 1
RS232 OUT 2
RS232 IN 1
RS232 IN 2
GRAY CODE INPUTS
A1,2,4,B1,2,4,C1,2,4,D4
COMMON
AUDIO MUTE SELECT
NOTE: Do NOT connect the GTX-330 SUPPRESSION to incompatable units (i.e. KN-62,KN-64,KNS-80).
GNS-430 (PRO-G)
P4006
P4001
C4
GPS/NAV1
ILS ENERGIZE
VOR/ILS ARINC 429 OUT A
VOR/ILS ARINC 429 OUT B
TIS CONNECT TO GTX-330
GPS ARINC 429 IN 1 A
GPS ARINC 429 IN 1 B
GPS ARINC 429 OUT 1 A
GPS ARINC 429 OUT 1 B
GPS ARINC 429 IN 2 A
GPS ARINC 429 IN 2 B
GPS RS232 IN 1
GPS RS232 OUT 1
GPS RS232 IN 2
GPS RS232 OUT 2
GPS RS232 IN 3
GPS RS232 OUT 3
GPS RS232 IN 4
GPS RS232 OUT 4
GROUND
GPS ANNUNCIATE
VLOC ANNUNCIATE
LEFT,RIGHT,UP,DOWN,
TO,FROM,FLAGS and RES
ILS / GPS APPROACH
GREY CODE INPUTS
A1,2,4,B1,2,4,C1,2,4,D4
LATERAL SUPER FLAG
VERTICAL SUPER FLAG
VOR/ILS ARINC 429 INA
VOR/ILS ARINC 429 INB
TX INTERLOCK
MIC PTT
GPS
MAP
Pigtail
Fuel
Flow
Pigtail
SSD-120 / D120-P2-T
(PRO / PRO-G)
C2
ENCODER
GREY CODE OUTPUTS
A1,2,4,B1,2,4,C1,2,4,D4
OUTPUT ENABLE
KT-76A/78 A
(PRO / PRO-G)
C1
TRANSPONDER
GREY CODE INPUTS
A1,2,4,B1,2,4,C1,2,4,D4
STANDBY
SUPPRESSION
IDENT
NOTE: The KT-76A dimmer is wired for 28 VDC - However, it requires a 10 ohm 55 watt dropping resistor in series with the power pin 11 for 28 VDC operation.
C5
COMM1
Possible Addition
ASPEN PRO (PRO-G)
C12
GPS I/O
429 VLOC1 RX 2A
429 VLOC1 RX 2B
429 GPS1 RX 1A
429 GPS1 RX 1B
Configure
Module
CONFIG A
CONFIG B
CONFIG C
CONFIG D
RSM A
RSM B
RSM C
RSM D
RSM E
RSM F
RSM G
RSM
PFD GPS/VLOC TX A
PFD GPS/VLOC TX B
ACU RX 4A
ACU RX 4B
Connect 12" #22 awg white wire labeled GROUND to the shield at EFD end
KI-203 / 204
(PRO / PRO-G)
C9
DISPLAY 2
VOR/LOC COMPOSITE
ILS ENERGIZE
UP
DOWN
GS + FLAG
GS - FLAG
Only on KI-204
+ LEFT OUT
+ RIGHT OUT
NAV -FLAG OUT
NAV +FLAG OUT
+ FROM OUT
+ TO OUT
Possible Addition
ASPEN ACU (PRO-G)
P3
C11
INTERCOM
429 TX1B
429 TX1A
429 RX1B
429 RX1A
429 TX2A
429 TX2B
P2
NAV COMPOSITE
/ILS ENGAGE
GS+ UP
GS+ DN
GS+ FLG
GS- FLG
NOTE: If no ACU then INTERCOM pins 7 and 8 must be connected to PFD TXA pin 26 and TXB pin 27.
KX-155 W GS
(PRO-G)
P401
P901
C8
COMM2
C7
GPS/NAV2
PTT
VOR/LOC COMPOSITE
ILS ENERGIZE
GS UP
GS DOWN
GS +FLAG
GS - FLAG

Approach Fast Stack

PRO-G HUB (REV C)
7030-0001

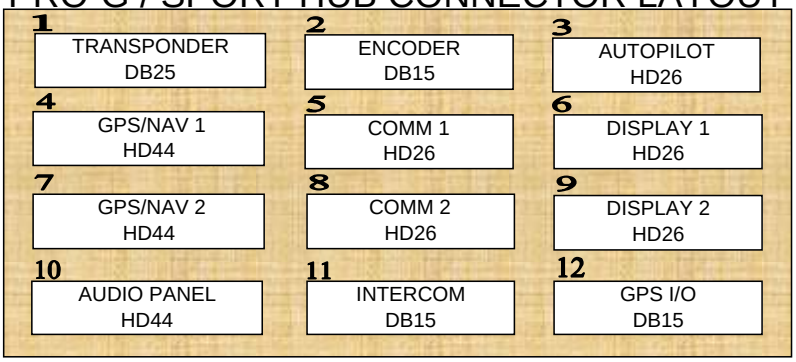
CUSTOMER: **David Turner 09-191**

SERIAL #: **H0912191-01G**

MATERIALS USED:

QTY	UNIT	DESCRIPTION	PART NUMBER
1	EACH	PRINTED CIRCUIT BOARD	7030-0751
1	EACH	DB25M BOARDMOUNT CON.	6000-0004
3	EACH	DB15M BOARDMOUNT CON.	6000-0003
5	EACH	HD26M BOARDMOUNT CON.	6000-0005
3	EACH	HD44M BOARDMOUNT CON.	6000-0006
24	EACH	HEX SCREWS	6700-0001
24	EACH	WASHERS	6700-0005
4	EACH	(4-40) ENCLOSURE SCREWS	6700-0002
1	EACH	BOTTOM ENCLOSURE	7030-1002
1	EACH	TOP ENCLOSURE	7030-1001
1	EACH	PRO-G MOUNTING BRACKET	7032-0001
2	EACH	MOUNTING THUMB SCREWS	6700-0009

PRO-G / SPORT HUB CONNECTOR LAYOUT



SPECIAL INSTRUCTIONS:

EACH CABLE YOU PURCHASED FROM APPROACH IS LISTED BELOW. NOTE THAT ON THE HUB END OF EACH CABLE YOU WILL FIND A LABEL THAT CORRESPONDS WITH THE APPROPRIATE CONNECTOR ON YOUR HUB. USE THE DIAGRAM SHOWN ABOVE TO MATCH EACH OF YOUR CABLES TO THE APPROPRIATE HUB CONNECTOR.

1= KT-76A / AT-165A
2= SSD-120 / D120-P2-T
3= CENTURY III / GDC-31
4= GNS-430 (GPS/NAV)
5= GNS-430 (COMM)
6= KPI-550A
7= KX-155 w GS (GPS/NAV)
8= KX-155 w GS (COMM)
9= KI-203
10= PMA 7000
11= ASPEN PRO w ACU (INTERCOM)
12= ASPEN PRO w ACU (GPS I/O)

CUSTOMER SPECIFIC INSTRUCTIONS: (HUB MODS, IF ANY)

C4.6 to C1.10 (TIS from GPS/NAV1 to TRANSPONDER)
C4.21 to C3.15 (VLOC from GPS/NAV1 to AUTOPILOT)
C4.40 to C3.24 & C4.41 to C3.25 (ARINC OUT from GPS/NAV1 to AUTOPILOT)
C1.12 to C10.12 (AUDIO OUT from TRANSPONDER to AUDIO PANEL)
C4.36 to C12.7 & C4.37 to C12.8 (VOR ARINC from GPS/NAV1 to GPS I/O)
C4.8 to C11.7 & C4.9 to C11.8 (GPS ARINC from GPS/NAV1 to INTERCOM)
C7.33 to C11.9 (ILS from GPS/NAV2 to INTERCOM)
C7.19 to C11.10 (COMPOSITE from GPS/NAV2 to INTERCOM)
C7.30 to C11.11 & C7.31 to C11.12 & C7.28 to C11.13 & C7.32 to C11.14 GPS/NAV2 to INTERCOM)

NOTE: The KT-76A dimmer is wired for 28 VDC - However, it requires a 10 ohm 55 watt dropping resistor in series with the power pin 11 to operate on 28 VDC.

Cable Name:	PRO-G / SPORT HUB			
Cable Part Number:	7030-0001		**REVISION:**	C
Updated By:	CC	**Date:**	2/20/2003	
ENG. Approval:	tjs	**Date:**	2/20/2003	
MFG. Approval:	wcc	**Date:**	10/6/2003	
QC Approval:	ilw	**Date:**	10/6/2003	
ECO:		**Date:**		
Printed:	8/3/2022			

Approach Fast Stack

Customer: David Turner 09-191

Serial: P0912191-01

Pin Designation:	A AUDIO PNL HD44M	B1 (J1) BOTTOM MOLEX-44	SHIELD	
COMM 1 AUDIO HI	17(bl)	9	1-1	
COMM 1 AUDIO LO	wh/sh	**1**	1-2	
COMM 1 MIC HI	26(wh)	P	2-1	
COMM 1 MIC PTT	28(bl)	R	2-2	
COMM 2 AUDIO HI	19(bl)	10	3-1	
COMM 2 AUDIO LO	wh/sh	**1**	3-2	
COMM 2 MIC HI	14(wh)	H	4-1	
COMM 2 MIC PTT	36(bl)	V	4-2	
COMM 3 / CELL AUDIO HI	16(bl)	**J**	5-1	
COMM 3 / CELL AUDIO LO	wh/sh	**1**	5-2	
COMM 3 / CELL MIC PTT	29(bl)	15	6-1	
COMM 3 / CELL MIC HI	18(wh)	**K**	6-2	
NAV 1 AUDIO HI	23(bl)	12	7-1	
NAV 1 AUDIO LO	wh/sh	**1**	7-2	
NAV 2 AUDIO HI	25(bl)	13	8-1	
NAV 2 AUDIO LO	wh/sh	**1**	8-2	
ADF AUDIO HI	30(bl)	S	9-1	
ADF AUDIO LO	wh/sh	**1**	9-2	
DME AUDIO HI	11(bl)	6	10-1	
DME AUDIO LO	wh/sh	**1**	10-2	
AUX AUDIO HI	21(bl)	11	11-1	
AUX AUDIO LO	wh/sh	**1**	11-2	
UNSWITCHED 1 HI	12(bl)	T	12-1	
UNSWITCHED 1 LO	wh/sh	**1**	12-2	
UNSWITCHED 2 HI	10(bl)	17	13-1	
UNSWITCHED 2 LO	wh/sh	**1**	13-2	
MKR LAMP BLUE	5(bl)	5	14-1	OUTER
MKR LAMP AMBER	15(or)	4	14-2	MIDDLE
MKR LAMP WHITE	42(wh)	C	14-3	INNER
MM SENSE HI		2(bl)	15-1	
MM SENSE LO		1(wh/sh)	15-2	
EXT MKR AUDIO IN HI		21	16-2	
EXT MKR AUDIO IN LO		1(wh/sh)	16-2	
UNSWITCHED 1 HI		T	17-1	Unswitched Inputs
UNSWITCHED 1 LO		1(wh/sh)	17-2	
UNSWITCHED 2 HI		17(bl)	18-1	
UNSWITCHED 2 LO		1(wh/sh)	18-2	
UNSWITCHED 3 HI		U(bl)	19-1	
UNSWITCHED 3 LO		1(wh/sh)	19-2	
UNSWITCHED 4 HI		X(bl)	20-1	
UNSWITCHED 4 LO		1(wh/sh)	20-2	
CELL AUDIO HI		J(bl)	21-1	
CELL MIC HI		K(or)	21-2	
CELL AUDIO LO		1(wh/sh)	21-2	
CABIN SPEAKER HI		W	22-1	2/#22 Shielded
CABIN SPEAKER LO		22	22-2	
CABIN SPEAKER SHIELD		1(sh)	Shield	
MARKER ANT HI		B	Coax	RG-58
MARKER ANT LO		A	Shield	
PA MUTE		18		
14V DIMMER		D		#22 Orange
28V DIMMER		F		#22 Orange
DIMMER LO		E		#22 Blue
11-33 VDC, 3A		20		#18 Red
GROUND		Z		#18 Black

Pin Designation:	B1 (J1) BOTTOM MOLEX-44	B2 (J2) TOP MOLEX-44	C Pilot Phone	D Pilot Mic	E Hand Mic	F Copilot Phone	G Copilot Mic	H Pass 1 Phone	I Pass 1 Mic	J Pass 2 Phone	K Pass 2 Mic	L Pass 3 Phone	M Pass 3 Mic	N Pass 4 Phone	O Pass 4 Mic	SHIELD	
PILOT HEADSET L		1(bl)	Tip													1-1	
PILOT HEADSET R	3(or)		Ring													1-2	
PILOT HEADSET LO	**22(wh)**		Sleeve													1-3	
PILOT HS SHIELD	**1(sh)**															Shield	
PILOT EXT PTT	Y																#22 White
PILOT MIC PTT	Y(bl)			Tip												2-1	
PILOT MIC HI	**8(or)**			Ring												2-2	
PILOT MIC LO	1(wh/sh)			Sleeve												2-3	
HAND MIC KEY	Y(bl)				Tip											3-1	
HAND MIC HI	**8(or)**				Ring											3-2	
HAND MIC LO	**1(wh/sh)**				Sleeve											3-3	
COPILOT HEADSET L		2(bl)				Tip										4-1	
COPILOT HEADSET R		3(or)				Ring										4-2	
COPILOT HEADSET LO		B(wh/sh)				Sleeve										4-3	
COPILOT EXT PTT		9															#22 White
COPILOT MIC PTT		**9(bl)**					Tip									5-1	
COPILOT MIC HI		8(or)					Ring									5-2	
COPILOT MIC LO		K(wh/sh)					Sleeve									5-3	
PASS 1 PHONES L		**12(bl)**						Tip								6-1	
PASS 1 PHONES R		**11(or)**						Ring								6-2	
PASS 1 PHONES LO		N(wh/sh)						Sleeve								6-3	
PASS 1 MIC		4(bl)							Ring							7-1	
PASS 1 MIC LO		D(wh/sh)							Sleeve							7-2	
PASS 2 PHONES L		**12(bl)**								Tip						8-1	
PASS 2 PHONES R		**11(or)**								Ring						8-2	
PASS 2 PHONES LO		N(wh/sh)								Sleeve						8-3	
PASS 2 MIC		5(bl)									Ring					9-1	
PASS 2 MIC LO		E(wh/sh)									Sleeve					9-2	
PASS 3 PHONES L		**12(bl)**										Tip				10-1	
PASS 3 PHONES R		**11(or)**										Ring				10-2	
PASS 3 PHONES LO		N(wh/sh)										Sleeve				10-3	
PASS 3 MIC		6(bl)											Ring			11-1	
PASS 3 MIC LO		F(wh/sh)											Sleeve			11-2	
PASS 4 PHONES L		**12(bl)**												Tip		12-1	
PASS 4 PHONES R		**11(or)**												Ring		12-2	
PASS 4 PHONES LO		N(wh/sh)												Sleeve		12-3	
PASS 4 MIC		7(bl)													Ring	13-1	
PASS 4 MIC LO		H(wh/sh)													Sleeve	13-2	
MUSIC 1 L		16(bl)														14-1	
MUSIC 1 R		15(or)														14-2	
MUSIC 1 LO		T(wh/sh)														14-3	
MUSIC 2 L		14(bl)														15-1	
MUSIC 2 R		13(or)														15-2	
MUSIC 2 LO		R(wh/sh)														15-3	
C3 DUPLEX		J															#22 White
PA ACTIVE		18															#22 White
SWAP SWITCH		10															#22 White
COPILOT HOOK SWITCH		L															#22 White
MUSIC 2 MUTE		V															#22 White
PASS HOOK SWITCH		M															#22 White
PLAYBACK		19															#22 White
ACKNOWLEDGE		W															#22 White
MESSAGE 6		20															#22 White
MESSAGE 5		X															#22 White
MESSAGE 4		21															#22 White
MESSAGE 3		Y															#22 White
MESSAGE 2		22															#22 White
MESSAGE 1		Z															#22 White

Only for units with Playback and DRAWS Options

Customer Specific Instructions:

Power / Dimmer / Ground / Speaker lines - 4 feet
Pilot Mic / Phone & Copilot Mic / Phone - 6 feet
Pilot / Copilot PTT - 8 feet
Passenger 1 & 2 Mic / Phone & **MUSIC 2 - 12 feet**
Passenger 3 & 4 Mic / Phone - 15 feet
Unswitched / Cell Inputs - 5 feet
MUSIC 1 / Swap / Playback- 48"
Marker Ant - 6"
NOTE: Some signals (i.e. PLAYBACK, MESSAGE, etc.) reuqire units with OPTIONS. Also, some connections to COMM3 (i.e. AirCell AT.01 or cell phone) require the J2 pin J (CELL DUPLEX pigtail) to be connected to ground. Refer to install manual.
Insulate and tuck away unused wires.
Grayed out items are not wired

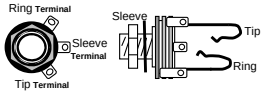
Special Instructions:

Overall cable length - 24" (Standard)
Connect A-44 to shields, braid and connector shell.
Multiple wires connected to some pins on J1 and J2.

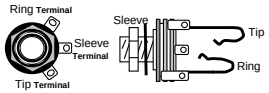
Key Molex J1-BOTTOM between pins 7 and 8
Key Molex J2-TOP between pins 4 and 5

NOTE: Customer will install ALL mic and phone jacks,

1/4" STEREO JACK 6200-0018
FRONT & SIDE VIEWS



3/16" MIC JACK 6200-0019
FRONT & SIDE VIEWS



Cable Name:	PMA-7000B		
Cable Part Number:	7120-0123 base	**Voltage:**	28
	7102-0246 intcm		
Hub Compatibility:	PRO / PRO-G	**Revision:**	B1
Updated By:	djm	**Date:**	4/23/2004
ENG. Approval:	tjs	**Date:**	4/23/2004
MFG. Approval:	wcc	**Date:**	4/23/2004
QC Approval:	wcc	**Date:**	4/23/2004
ECO:		**Date:**	
Printed:	8/3/2022		

Approach Fast Stack

Customer: David Turner 09-191

Serial : P0912191-02

Pin Designations:	A1 GPS/NAV HD44M	A2 COMM HD26M	B1 P4001 HD78M	B2 P4002 DB25F	B3 P4006 HD44M	SHIELD	
TIS CONNECT TO GTX-330	6		11				← Requires Hub Mod If Used
MAIN LATERAL +FLAG	10		23				
MAIN +FROM	11		26				
MAIN +TO	12		25				
MAIN +RIGHT	13		22				
MAIN +LEFT	14		21				
APPROACH ANNUNCIATE	18		5				
GPS ANNUNCIATE	20		**2**				
VLOC ANNUNCIATE	21		**1**				
ILS/GPS APPROACH	23		14				
MAIN VERTICAL +FLAG	28		29				
MAIN LATERAL -FLAG	29		24				
MAIN +UP	30		27				
MAIN +DOWN	31		28				
MAIN VERTICAL -FLAG	32		30				
OBS ANNUNCIATE	15		7				
MAIN OBS ROTOR C	25		31			1-1	
MAIN OBS ROTOR H	24		32			1-2	
MAIN OBS ROTOR D	7		33			2-1	
MAIN OBS ROTOR E	26		34			2-2	
MAIN OBS ROTOR F	16		35			3-1	
MAIN OBS ROTOR G	34		36			3-2	
GPS ARINC 429 OUT A	40		46			4-1	
GPS ARINC 429 OUT B	41		47			4-2	
GPS ARINC 429 IN 1 A	39		48			5-1	
GPS ARINC 429 IN 1 B	38		49			5-2	
GPS ARINC 429 IN 2 A	8		50			6-1	
GPS ARINC 429 IN 2 B	9		51			6-2	
GPS RS232 IN 1	2		57			7-1	IN FROM ENCODER/SERIALIZER
GPS RS232 OUT 1	1,22		**56**			8-1	OUT TO RS232 DEVICE & AUTOPILOT
GPS RS232 IN 2	43		59			9-1	
GPS RS232 OUT 2	42		58			10-1	
GPS RS232 IN 3 X-TALK	5		42			11-1	CROSS CONNECT USE ONLY
GPS RS232 OUT 3 X-TALK	4		41			12-1	CROSS CONNECT USE ONLY
GPS RS232 IN 4	35		**55**			13-1	
GPS RS232 OUT 4	17		54			14-1	
ILS ENERGIZE	33				29		
VOR/LOC COMPOSITE OUT	19				8	15-1	
VOR/ILS ARINC 429 OUT A	36				24	16-1	
VOR/ILS ARINC 429 OUT B	37				23	16-2	
VOR/ILS ARINC 429 IN A		7(bl)			36	17-1	
VOR/ILS ARINC 429 IN B		15(wh)			35	17-2	
ALTITUDE D4		16	70				
ALTITUDE A1		17	69				
ALTITUDE A2		18	68				
ALTITUDE A4		19	67				
ALTITUDE B1		20	66				
ALTITUDE B2		21	65				
ALTITUDE B4		22	64				
ALTITUDE C1		23	63				
ALTITUDE C4		24	61				
ALTITUDE C2		25	62				
ALTITUDE COMMON		26	60				
MAIN LATERAL SUPERFLAG		5	17				} Requires Hub Mod If Used
MAIN VERTICAL SUPERFLAG		6	18				
NAV AUDIO HI		10(bl)			16	18-1	
NAV AUDIO LO		wh/sh			17	18-2	
TRANSMIT INTERLOCK		**3**		14			
COMM AUDIO HI		14(bl)		7		19-1	
COMM AUDIO LO		wh/sh		19		19-2	
COMM MIC KEY IN		4(bl)		4		20-1	
COMM MIC AUDIO HI		8(or)		6		20-2	
COMM MIC AUDIO LO		wh/sh		18		20-3	
GPS RS232 IN 4			**55(bl)**			21-1	} **RS232 FUEL FLOW**
GPS RS232 OUT 1			**56(or)**			21-2	
GROUND			**77(wh/sh)**			21-3	
GPS RS232 OUT 1			**56**			22-1	} **RS232 GPSMAP**
GROUND			**77(sh)**			Shield	
COMM REMOTE TRANSFER				15			#22 White
GPS ANNUNCIATE			**2**				#22 White - GPS TRACK GAIN on STEC AUTOPILOT - See NOTE
VLOC ANNUNCIATE			**1**				#22 White - GPS OVERRIDE on STEC GPSS CONVERTER - See NOTE
14/28 VDC, 5A			19,20				2- #22 Red
GROUND			**77**,78				2- #22 Black
LIGHTING BUS HI			39				#22 Orange
LIGHTING BUS LO			40				#22 Blue
14VDC 10A / 28VDC 5A				11,12			2- #18 Red
GROUND				21,22			2- #18 Black
11-33 VDC, 2A					44		#22 Red
GROUND					41		#22 Black

Customer instructions:

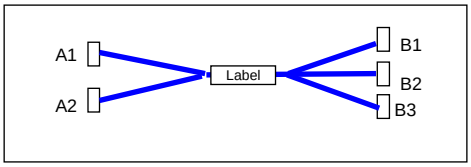
The lighting bus voltage is selected via configuration menus.
NOTE: To crossfill flight plans between two 400 Series units, both units must have identical database cycle dates and they may also need to have identical versions of the main software. Also a 400W Series unit will crossfill with other GNS 400W/500W Series units only. It will not crossfill with older GNS 400/500 Series units. Some GNS-430/530 models are voltage dependent (i.e. 22-33VDC instead of 11-33VDC) for aircraft power. Check model number with install manual to ensure proper operation. An optional S-TEC GPSS converter needs a connection to the VLOC Annunciate line (P4001 pin 1) and some S-TEC autopilots require a connection to the GPS Annunciate line (P4001 pin 2) . Pigtails are provided for these signals since they are not available on the hub's AUTOPILOT connector.
Insulate and tuck away unused wires. **Grayed out items not wired.**

Special Instructions:

Overall Cable Length - 24" (Standard)
Power / Dimmer / Ground / Other pigtails - 48"
Connect A1-44 and A2-26 to shields, braid and connector shell.
Cable joins in the middle to allow separation of client/hub connectors.
Use mil Spec Connectors and Backshells on B1, B2 & B3.
Multiple wires connected to some pins.

Cable Name: GNS-430 / 530

Cable Part Number:	7130-0342 / 7130-0343	**Voltage:**	14/28
Hub Compatibility:	PRO-G	**Revision:**	B7
Updated By:	djm	**Date:**	8/5/2004
ENG. Approval:	tjs	**Date:**	8/5/2004
MFG. Approval:	wcc	**Date:**	8/5/2004
QC Approval:	wcc	**Date:**	8/5/2004
ECO:		**Date:**	
Printed:	8/3/2022		



Approach Fast Stack

Customer: **David Turner 09-191**

Serial: **P0912191-03**

Pin Designations:	A DISPLAY HD26M	B KPI-550A Open-Ended	SHIELD
+LEFT	11(bl)	s	1-1
+RIGHT	12(wh)	r	1-2
+TO	9	t	
+FROM	10	u	
LAT +FLAG	7	T	
LAT -FLAG	8	g	
+UP	13(bl)	EE	2-1
+DOWN	14(wh)	p	2-2
VERT +FLAG	15	FF	
VERT -FLAG	16	GG	
RES H	1(bl)	Z	3-1
RES C	2(wh)	Y	3-2
RES D	3(bl)	X	4-1
RES E	5(wh)	W	4-2
RES F	4(bl)	V	5-1
RES G	6(wh)	JJ	5-2

Customer Specific Instructions:

NOTE: Label all pigtails with signal name and KPI 550A pin numbers, allow 6" of wire for customer to terminate. Underline denotes lower case letters.

Insulate and tuck away any unused wires.
Grayed out items not wired.

Special Instructions:

Length from A to B - 42" (Standard - open-ended)

Connect A-26 to shields, braid and connector shell.

NOTE: Build cable open-ended unless customer supplies client connector. Label all open-ended wires with pin designation and associated equipment name and number.

Cable Name: KPI-550A

Cable Part Number:	7120-0456			**Voltage:**	**N/A**
Hub Compatibility:	PRO / PRO-G			**Revision:**	B1
Updated By:	djm	**Date:**	3/17/2009		
ENG. Approval:	tnh	**Date:**	3/17/2009		
MFG. Approval:	tnh	**Date:**	3/17/2009		
QC Approval:		**Date:**			
ECO:		**Date:**			
Printed:	8/3/2022				

Approach Fast Stack

Customer: David Turner 09-191

Serial: P0912191-04

Pin Designations:	A1 GPS/NAV HD44M	A2 COMM HD26M	P401 KX-155 MOLEX 30	P901 KX-155 MOLEX 36	SHIELD	
COMM AUDIO HI		14(bl)	9		1-1	
COMM AUDIO LO		wh/sh	K		1-2	
COMM MIC KEY		4(bl)	6		2-1	
COMM MIC HI		8(wh)	2		2-2	
COMM MIC SHIELD			**15(sh)**		Shield	
NAV AUDIO HI		10(bl)	10		3-1	
NAV AUDIO LO		wh/sh	L		3-2	
ILS ENERGIZE	33		8			
COMPOSITE	19		H		4-1	
COMPOSITE SHIELD			**S(sh)**		Shield	
GS +UP	30			S	5-1	
GS +DOWN	31			T	5-2	
GS +FLAG	28			U		
GS -FLAG	32			R		
CLOCK BUS			3		6-1	Connect shields at KX-155 to P401 pin 15
DATA BUS			5		7-1	
RNAV/CH REQ			F		8-1	
DME COMMON			D			#20 White
SW PWR JUMPER			12-N-11-M			#20 White Jumper
NAV REMOTE XFR			13			#20 White
COMM REMOTE XFR			P			#20 White
28V NAV REMOTE XFR			14			#20 White
28V COMM REMOTE XFR			R			#20 White
28 VDC, 10A			13,P			2- #18 Red
14 VDC, 10A			14,R			2- #18 Red
GROUND			**15,S**			2- #18 Black

Customer Specific Instructions:

Insulate and tuck away any unused wires

NOTE: A KX-155 is built to operate on either 14v or 28v - not both. Check equipment part number with an install manual to ensure it will operate at the specified voltage.

Grayed out items not wired.

Cable Name: KX-155 WITH GLIDESLOPE

Cable Part Number:	7130-0310	**Voltage:**	28
Hub Compatibility:	PRO-G REV C	**Revision:**	B1
Updated By:	jwb	**Date:**	4/11/2003
ENG. Approval:	tjs	**Date:**	8/22/2003
MFG. Approval:	wcc	**Date:**	11/10/2003
QC Approval:	wcc	**Date:**	11/10/2003
ECO:		**Date:**	
Printed:	8/3/2022		

Special Instructions:

Overall cable length - 24" (Standard)
Power / Ground / Other pigtails - 48"
Connect A1-44 and A2-26 to shields, braid and connector shells.
Cable split at mid point to allow client connections.
Multiple wires connected to P401 pins 15 and S.

Key Molex-30 P401 between pins 3 and 4
Key Molex-36 P901 between pins 1-2 and 16-17

Approach Fast Stack

Customer: David Turner 09-191

Serial: P0912191-05

Pin Designations:	A DISPLAY HD26M	B KI-203/204 Positronic 41-PIN F	SHIELD	
+UP	13	k		Only on KI-204
+DOWN	14	m		
+GS FLAG	15	H		
-GS FLAG	16	J		
COMPOSITE	25	Y	1-1	
COMPOSITE SHIELD		V(sh)	Shield	
ILS ENERGIZE	24	K		
NAV+	7	N		KI-203/204 OUTPUTS
NAV-	8	F		
+TO	9	e		
+FROM	10	S		
+LEFT	11	n		
+RIGHT	12	j		
COURSE DATUM H		r(bl)	2-1	Course Data Syncro is only in the KI-204 066-3034-03 version.
COURSE DATUM C		s(wh)	2-2	
COURSE DATUM X		t(bl)	3-1	
COURSE DATUM Y		u(or)	3-2	
COURSE DATUM Z		v(wh)	3-3	
14V DIMMER HI		D		#20 Orange
14V DIMMER LO		B,E		2- #20 Blue
28V DIMMER HI		B		#20 Orange
28V DIMMER LO		E		#20 Blue
14 / 28 VOLTS		b		#20 Red
GROUND		V		#20 Black

Use Positronic sockets Part #FC120N2 (6200-0010)

Special Instructions:

Overall Cable length - 36" (Standard)
Power / Ground / Dimmer pigtails - 48"
Connect A-26 to shields, braid and connector shell.
Multiple wires connected to some pins.

Cable Name:	KI-203/204 Convertor / Indicator			
Cable Part Number:	7120-0413		**Voltage:**	28
Hub Compatibility:	PRO-G / PRO		**Revision:**	B1
Updated By:	jwb	**Date:**	3/14/2003	
ENG. Approval	tjs	**Date:**	3/17/2003	
MFG. Approval:	wcc	**Date:**	9/26/2003	
QC Approval:	ilw	**Date:**	9/26/2003	
ECO				
Printed:	8/3/2022			

Customer Specific Instructions:

NOTE: If the NAV unit driving this indicator has NAV+, NAV-, +TO, +FROM, +LEFT or +RIGHT then the KI-203/204 pins associated with these outputs must be disconnected.

Insulate and tuck away unused wires.
Grayed out items not wired.

Approach Fast Stack

Customer: **David Turner 09-191**

Serial: **P0912191-06**

Pin Designations:	A TRANSPONDER DB25M	B KT-76A MOLEX-24	Shield	
A4	5	J		
A1	6	M		
B2	7	C		
C4	8	H		
C1	9	D		
A2	13	K		
B4	14	B		
B1	15	E		
C2	16	L		
D4	17	8		
DME SUPPRESS		9	1-1	
SUPPRESS SHIELD		1(sh)	Shield	
STANDBY		10		#22 White
IDENT		F		#22 White
14V DIMMER HI		2		#22 Orange
14V DIMMER LO		3		#22 Blue
28V DIMMER HI		3		#22 Orange
14 VDC, 3A		11		#20 Red **See NOTE**
GROUND		**1**,A		#20 Black

Special Instructions:

Overall cable length - 24" (Standard)
Power / Ground / Dimmer / Other pigtails - 48"
Connect A-25 to braid and connector shell.
Key Molex-24 connector between pins 3 and 4.

Customer Specific Instructions:

NOTE: The dimmer is wired for 28 VDC - However, KT-76A/AK-165KA requires a 10 ohm 55 watt dropping resistor in series with the power pin 11 for 28 VDC operation. Therefore, the power lead is labeled 14 VDC. Refer to install manual for more information.
Insulate and tuck away any unused wires.
Grayed out items not wired.

Cable Name: KT-76A / AT-165KA

Cable Part Number:	7120-0521			**Voltage:**	**14**
Hub Compatibility:	PRO / PRO-G			**Revision:**	B1
Updated By:	jwb	**Date:**	2/19/2003		
ENG. Approval:	tjs	**Date:**	8/22/2003		
MFG. Approval:	wcc	**Date:**	9/19/2003		
QC Approval:	ilw	**Date:**	9/19/2003		
ECO:		**Date:**			
Printed:	8/3/2022				

Approach Fast Stack

Customer: **David Turner 09-191**

Serial: **P0912191-07**

Pin Designations:	A ENCODER DB15M	B SSD-120 / D120-P2-T DB15F	SHIELD	
A1	2	2		
A2	3	3		
A4	4	4		
B1	5	5		
B2	9	9		
B4	10	10		
C1	11	11		
C4	12	12		
C2	13	13		
D4	14	1		
OUTPUT ENABLE		6-**15**		#20 White Jumper
14 VDC		14		#20 Red - See NOTE
28 VDC		8		#20 Red - See NOTE
GROUND		**15**		#20 Black

Special Instructions:

Overall cable length - **36"**
Power / Ground / Other pigtails - 48"
Connect A-15 to braid and connector shell.

Customer Specific Instructions:

The OUTPUT ENABLE is jumpered to GROUND. If the associated TRANSPONDER has a STROBE ENABLE line then cut the jumper and connect the OUTPUT ENABLE and STROBE ENABLE wires together.
NOTE: SSD-120 operates from 14 or 28 VDC which can be connected to either pin 8 or 14 since these pins are connected internally.
Insulate and tuck away any unused wires.
Grayed out items not wired.

Cable Name: SSD-120 / D120-P2-T ENCODER

Cable Part Number:	7120-0571	**Voltage:**	28
Hub Compatibility:	PRO / PRO-G	**Revision:**	B1
Updated By:	jwb	**Date:**	5/8/2003
ENG. Approval:	tjs	**Date:**	8/21/2003
MFG. Approval:	wcc	**Date:**	11/10/2003
QC Approval:	wcc	**Date:**	11/10/2003
ECO:		**Date:**	
Printed:	8/3/2022		

Approach Fast Stack

Customer: David Turner 09-191

Serial: P0912191-08

1049-4801-01

Pin Designations:	A AUTOPILOT HD26M	B1 CENTURY PIGTAILED CD34	B2 CENTURY PIGTAILED CD58	C GDC-31 DB25F	D ISOLATION COUPLER DB15F	E SWITCH ANNC	F IC388-MC OPEN END	SHIELD	
+ RIGHT	1	A						1-1	
+ LEFT	2	B						1-2	
GS + UP	5(bl)		B					2-1	
GS + DOWN	6(wh)		A					2-2	
SHIELD			D(sh)					Shield	
ARINC IN A	24(bl)			7				3-1	
ARINC IN B	25(wh)			8				3-2	
SHIELD				**14(sh)**				Shield	
RS232 FROM GPS	22(bl)							4-1	
SIGNAL GROUND	23(wh)							4-2	
VLOC ANNUNCIATE	15								
AP OUT				5	10			5-1	
				14(sh)				Shield	
AP REF 1				18	3			6-1	
				14(sh)				Shield	
GROUND				**14**	**14**				#22 Black
GROUND JUMPER					**14**-6			JUMPER	
LAMP A				12		1			
LAMP B				24		**11**			
LAMP B JUMPER						**11**-12		JUMPER	
GDC RSS OUTPUT					9	4		7-1	
SHIELD					**14(sh)**			Shield	
GDC JUMPER				11-22-13					
SUPERFLAG JUMPER				**1**-25				JUMPER	
GDC 28 VDC, 2A				**1**					#22 Red
GDC GROUND				**14**					#22 Black
COUPLER JUMPER					4-5				
COUPLER JUMPER					11-13				
HEADING H					1		D	8-1	Parallel to Pin D
SHIELD					**14(sh)**			Shield	
HEADING C					2		E	9-1	Parallel to Pin E
SHIELD					**14(sh)**			Shield	
HEADING Y					12		B	10-1	Parallel to Pin B
SHIELD					**14(sh)**			Shield	
GDC RSS OUTPUT						10	A **(NOTE)**	11-1	To pin A
SHIELD						**8(sh)**		Shield	
HEADING X						7	A **(NOTE)**	12-1	To wire removed from
SHIELD						**8(sh)**		Shield	
SWITCH JUMPER						5-3-2		JUMPER	#22 White
SWITCH DIMMER						6			#22 Orange
SWITCH GROUND						**8**			#22 Black

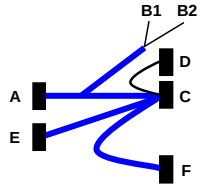
Customer Specific Instructions:
Due to the numerous units that makes up the Century system, this cable is provided open-ended. Heading info from the HSI is wired external to the HUB. Please refer to the appropriate install manuals.

NOTE: Parallel pins D,E and B to existing wires at IC388-MC, connect wire marked "to pin A" to IC388MC. Connect wire labeled "removed from pin A" to the wire that was connected to pin A of IC388-MC.

Insulate and tuck away unused wires.
Grayed out items not wired.

Special Instructions:

Length from A to B1/B2 - **36" (Standard - open-ended)**
Length from A to C - 36"
Length from C to D - 16" (some wires come from E)
Length from C to E - 40" (some wires come from D)
Length from C to F - 48" (wires from D and E)
Length of Power / Ground / Other pigtails - 48"
Connect A-26 to shields, braid and connector shell.



Split cable 6" from client end into 3 parts: CD34 wires, CD58 wires and GDC 31. Allow for 12" pigtails from end of braid and shrink. Label all pigtail ends.

Install Slide-Latch and backshells on GDC-31 and Isolation Coupler connectors

Cable Name:	CENTURY III AUTOPILOT With GDC-31 Pigtails		
Cable Part Number:	7120-0584 Century III 7120-0501 GDC-31	**Voltage:**	**28**
Hub Compatibility:	PRO / PRO-G	**Revision:**	B1
Updated By:	djm	**Date:**	3/16/2009
ENG. Approval:	tnh	**Date:**	3/18/2009
MFG. Approval:	tnh	**Date:**	3/18/2009
QC Approval:		**Date:**	
ECO:		**Date:**	
Printed:	8/3/2022		