

# MAINTENANCE RELEASE

## MINOR CHANGE OF

Aircraft Type: Cessna P210N Registration Mark: N6539W

Installation of S-TEC ST901. The complete installation was performed in accordance with the S-TEC ST901 Installation Manual. Used for the cable harness is specified in the installation manuals. The ST 901 is connected to the existing AP. All required Ground and Flight Tests of the above systems were performed in accordance with the ST901 Installation Manual. All systems performed within required specifications. No interference was noted to and from other installed equipment. The aircraft records were updated with the revised weight and balance and aircraft equipment list, reflecting the above alteration. Aircraft center of gravity limits are not exceeded. The description of work performed was entered in the Aircraft Maintenance Logbook. Performed aircraft electrical load analysis; power consumption does not exceed 80% of the electrical charging system.-----

The aircraft, airframe, avionic equipment or instrument identified above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Agency and is approved for return to service. Pertinent details are on file at this repair station under work order No. **09031813**.

Signed: .....  .....  ....., Date: **Jul. 06, 2009**

FAA: AQY020K

Avionik Straubing GmbH  
FO-P-07

• 94348 Atting  
Date: July 07,2008

• Germany  
Rev. 3

**Gewichts- und Balance Änderung / Ausrüstungslisten Revision**  
**Weight and Balance Changes / Equipment Revision List**

Aircraft MFR: Cessna  
Aircraft Type: P210N

Registration: N6593W  
W/O: 09031813

ITEM	WEIGHT [lbs]		ARM [inch]	MOMENT [inchlbs]	POWER [W]
	IN	OUT			
1. S-TEC GPSS ST-901 #03976-0924-10808	0,3		12	4	--
2.				0	
3.				0	
4.				0	
5.				0	
6.				0	
7.				0	
8.				0	
9.				0	
10.				0	
11.				0	
12.				0	
13.				0	
14.				0	
15.				0	
16.				0	
17.				0	
18.				0	
19.				0	
20.				0	
21.				0	
22.				0	
23.				0	
24.				0	
25.				0	
TOTAL:	0,30			4	0
LAST WEIGHT AND BALANCE FROM:					
*Σ:	0,30		13,33	4,00	0

TOT.MOMENT: 4,00 inchlbs  
TOT.WEIGHT: 0,30 lbs.

= TOT. ARM : 13,33 inch

THE NEW USEFUL LOAD IS      lbs.  
RESULTING POWER CHANGE IS 0 WATTS.

\*Diese Gewichtsänderung ist rein auf den oben genannten Umbau bezogen. Gesamtgewicht und Gesamthebelarm sind entsprechend zu ergänzen.

\*This weight and balance change refers only to the above alteration. Total aircraft weight and balance has to be changed accordingly.

Issued by: Dettenkofer Date: Jul. 06, 2009

Authorized Release Signature

JAYES ☒ NEIN/NO ☐

## NOTES:

1. ALL WIRES 22 AWG MINIMUM PER MIL-W-22759  
UNLESS OTHERWISE NOTED
2. TWISTED SHIELDED PAIR PER MIL-C-27500-22 XXX  
TWISTED SHIELDED TRIPLE PER MIL-C-27500-22 XXX
3. AN (\*) PRECEDING A LETTER INDICATES LOWER CASE
4. DASHED LINES INDICATES EXISTING WIRING INSTALLATION  
AND TO BE REUSED
5. SOLID LINES INDICATES ADDITIONAL WIRING INSTALLATION
6. THIS PLAN IS ONLY VALID IN ACCORDANCE WITH THE ORIGINAL MANUALS

7 ➤ MISC HARDWARE REQD: M81824/1-1 SPLICE  
M81824/1-2 SPLICE  
M81824/1-3 SPLICE  
SLC745-14 SLEEVE  
SLC745-15 SLEEVE  
NAS 1745-14 SOLDER SLEEVE  
NAS 1745-15 SOLDER SLEEVE  
( OR EQUIVALENT )

8 ➤ CIRCUIT BREAKER, P/N 7277-X-X ( OR EQUIVALENT )

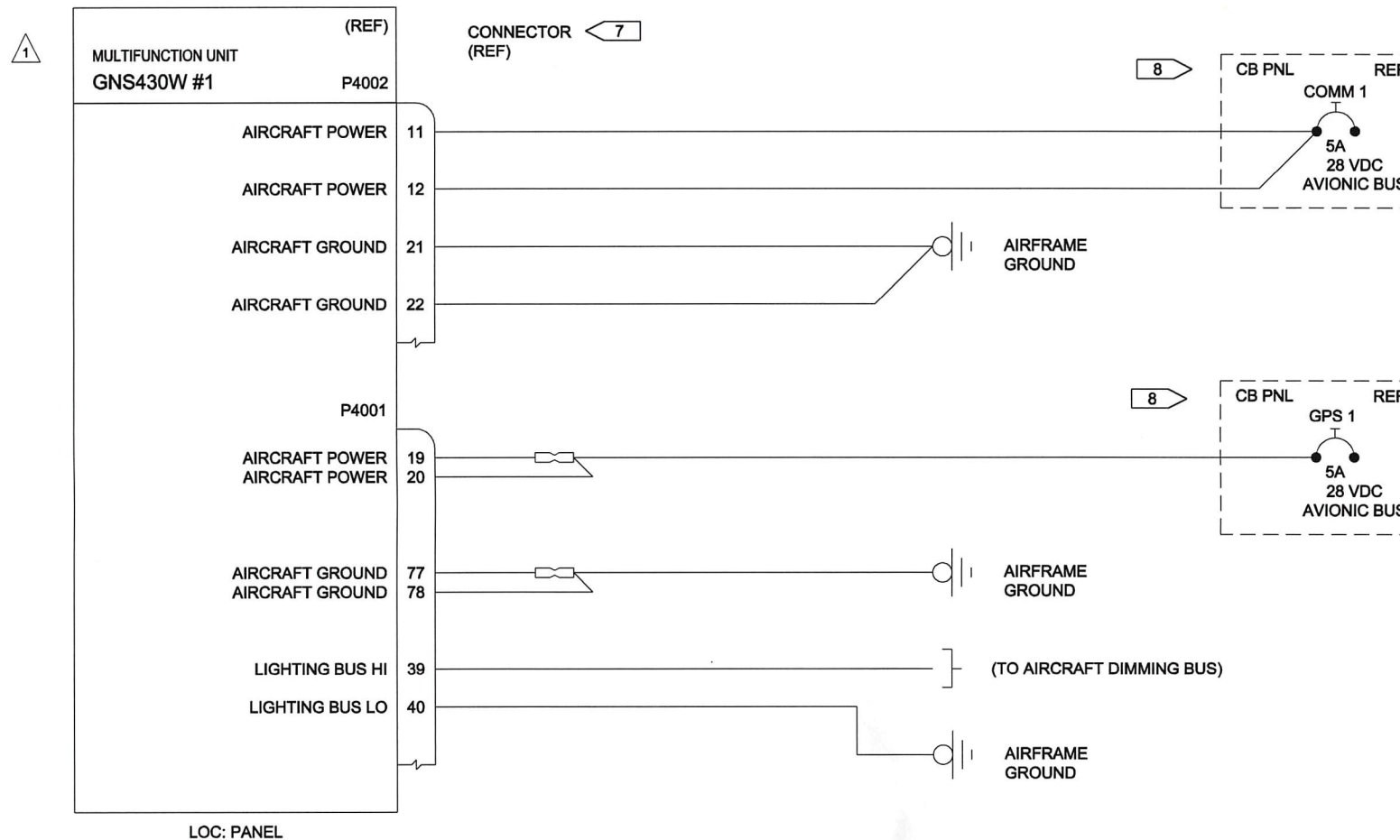
9 ➤ RAYCHEM, MENLO PARK, CA P/N RBD-50-M-01 ( OR EQUIVALENT )



Clearance:	Date:	Name:	Signature:	 Flugplatzstr. 5 D-94348 Atting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24 EASA Part 145 approval DE.145.0010 FAA Part 145 approval AQQY020K	Drawing N°:	Drawing Title		Notes:
Performed:	16/06/2009	J. WOZNIAK			PART145-09031813-001	WIRING DIAGRAM		9
Checked:	16/06/2009	E. SCHUSTER				NOTES		Sheet
						ONLY FOR REFERENCE		1 of 1
					A/C (Follow on Inst.) CESSNA 210	S/N: (Follow on Inst.)	Order-N: (Follow on Inst.) 09031813	REG: (Follow on Inst.) N6593W



△	MFG	DESCRIPTION	PART NUMBER	QTY	CONNECTOR KIT
1	GARMIN	GNS430W	011-01060-00	2	011-00351-00
2	GARMIN	GPS ANTENNA - GA35	013-00235-00	2	

THIS PLAN IS ONLY VALID IN ACCORDANCE WITH THE ORIGINAL MANUALS



Clearance:	Date:	Name:	Signature:
Performed:	16/06/2009	J. WOZNAK	
Checked:	16/06/2009	E. SCHUSTER	

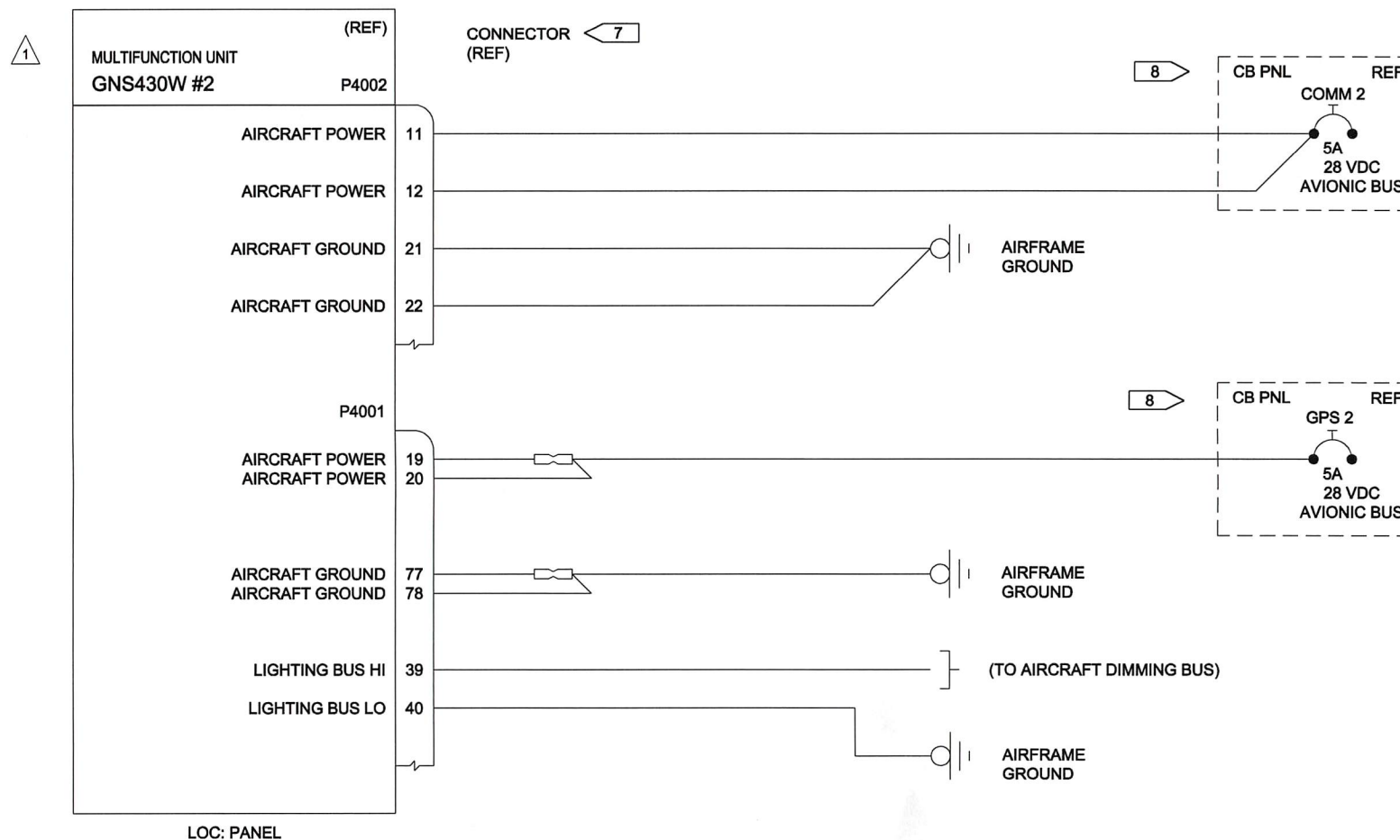
**AVIONIK STRAUBING** GmbH  
 Flugplatzstr. 5 D-94348 Atting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24  
 EASA Part 145 approval DE.145.0010  
 FAA Part 145 approval AQQY020K

Drawing N°:	Drawing Title	Notes:
PART145-09031813-002	WIRING DIAGRAM GARMIN GNS430W #1 - POWER ONLY FOR REFERENCE	PART145-09031813-001 Sheet 1 of 2
A/C (Follow on Inst.) CESSNA 210	S/N: (Follow on Inst.) Order-N: (Follow on Inst.) 09031813	REG: (Follow on Inst.) N6593W



△	MFG	DESCRIPTION	PART NUMBER	QTY	CONNECTOR KIT
1	GARMIN	GNS430W	011-01060-00	2	011-00351-00
2	GARMIN	GPS ANTENNA - GA35	013-00235-00	2	

THIS PLAN IS ONLY VALID IN ACCORDANCE WITH THE ORIGINAL MANUALS



Clearance:	Date:	Name:	Signature:
Performed:	16/06/2009	J. WOZNIAK	
Checked:	16/06/2009	E. SCHUSTER	

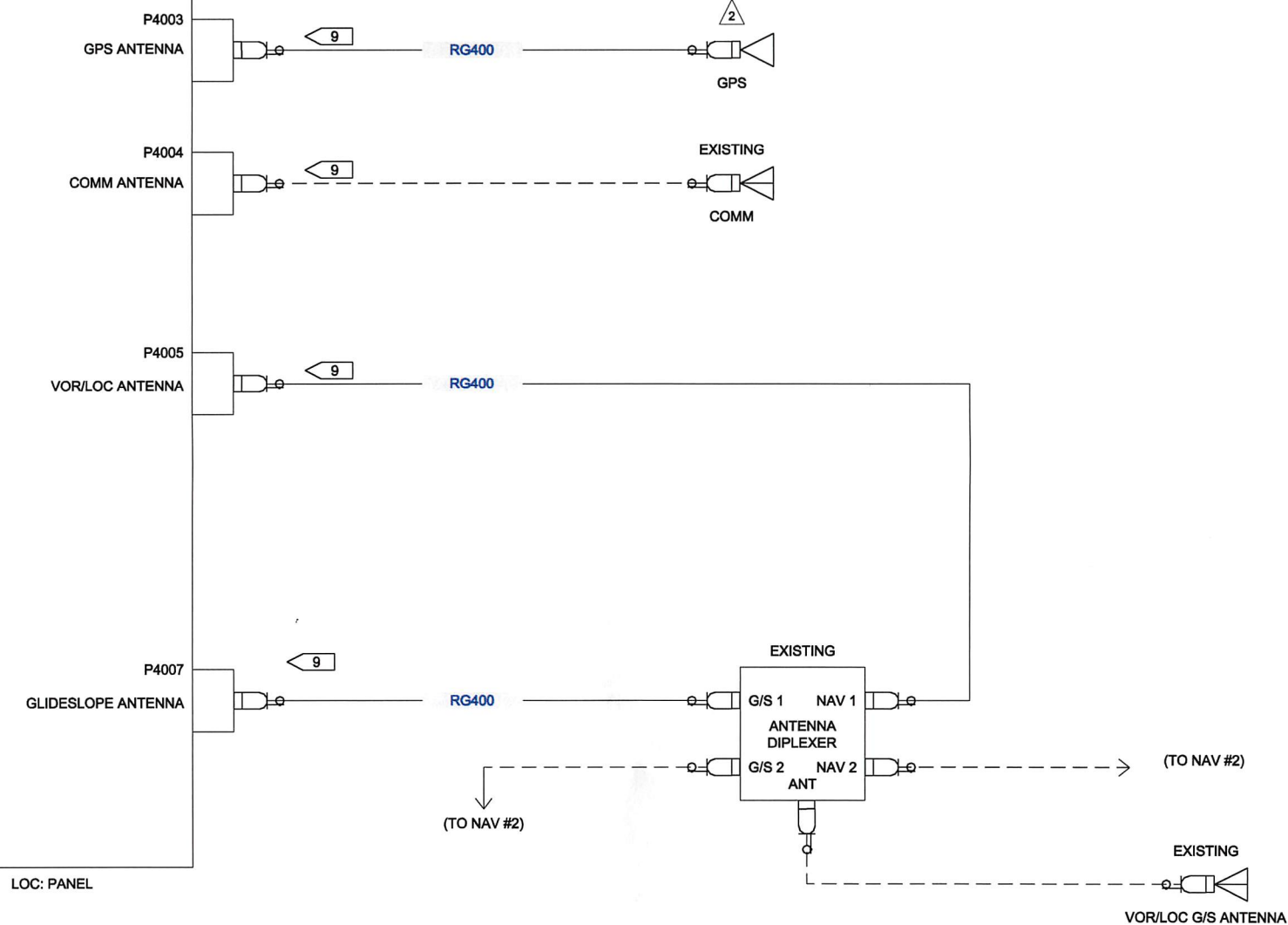
**AVIONIK STRAUBING** GmbH  
 Flugplatzstr. 5 D-94348 Atting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24  
 EASA Part 145 approval DE.145.0010  
 FAA Part 145 approval AQQY020K

Drawing N°:	Drawing Title		Notes:
PART145-09031813-002	WIRING DIAGRAM GARMIN GNS430W #2 - POWER ONLY FOR REFERENCE		PART145-09031813-001
			Sheet
			2 of 2
A/C (Follow on Inst.) CESSNA 210	S/N: (Follow on Inst.)	Order-N: (Follow on Inst.) 09031813	REG: (Follow on Inst.) N6593W

1

MULTIFUNCTION UNIT  
GNS430W #1

(REF)



△	MFG	DESCRIPTION	PART NUMBER	QTY	CONNECTOR KIT
△1	GARMIN	GNS430W	011-01060-00	2	011-00351-00
△2	GARMIN	GPS ANTENNA - GA35	013-00235-00	2	

THIS PLAN IS ONLY VALID IN ACCORDANCE WITH THE ORIGINAL MANUALS

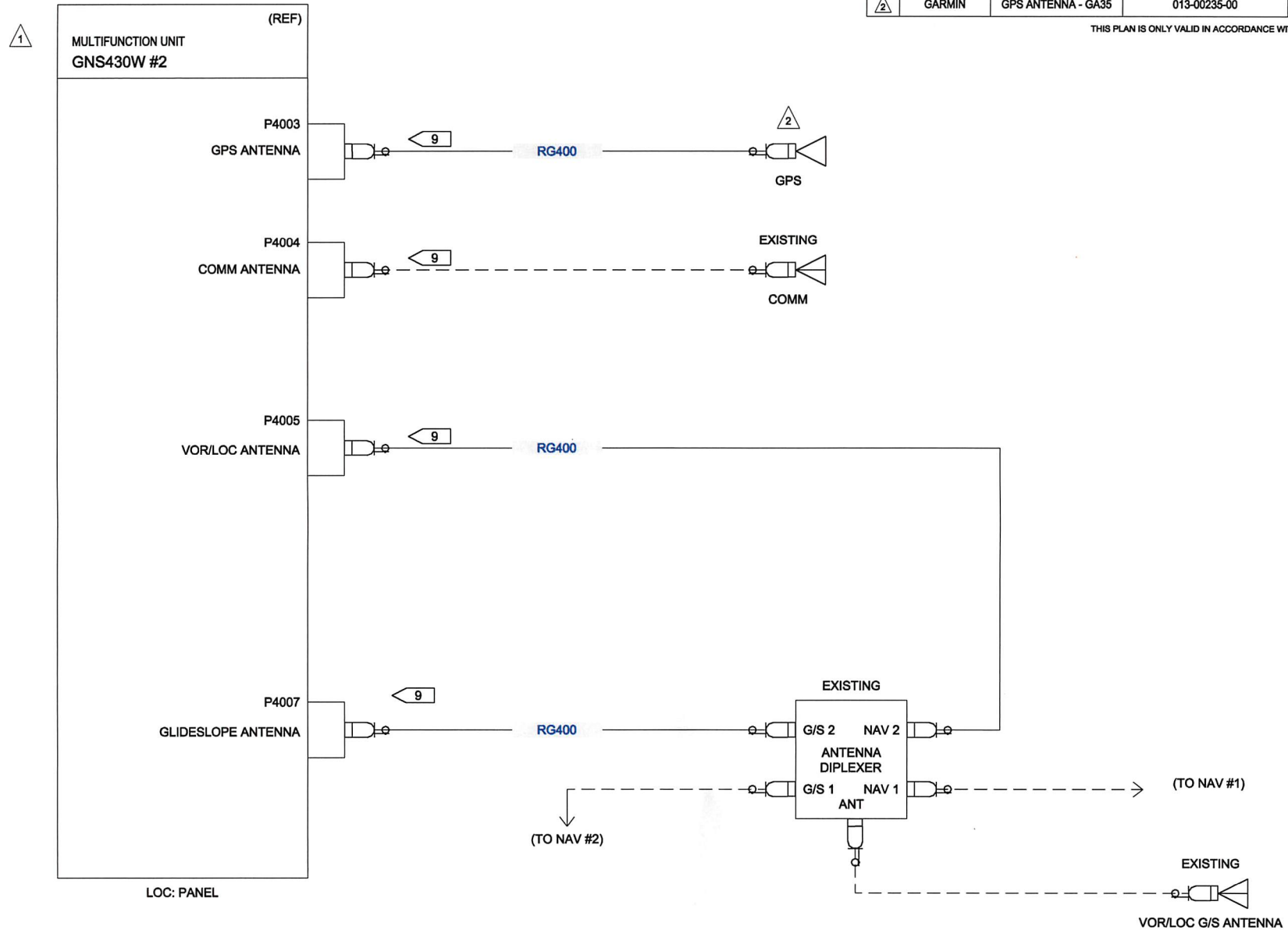
Clearance:	Date:	Name:	Signature:
Performed:	16/06/2009	J. WOZNIAK	
Checked:	16/06/2009	E. SCHUSTER	

**AVIONIK STRAUBING** GmbH  
Flugplatzstr. 5 D-94348 Atting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24  
EASA Part 145 approval DE.145.0010  
FAA Part 145 approval AQQY020K

Drawing N°:	Drawing Title		Notes:
PART145-09031813-003	WIRING DIAGRAM		PART145-09031813-001
	GARMIN GNS430W #1 - ANTENNA		Sheet
	ONLY FOR REFERENCE		1 of 2
A/C (Follow on Inst.)	S/N: (Follow on Inst.)	Order-N: (Follow on Inst.)	REG: (Follow on Inst.)
CESSNA 210		09031813	N6593W

△	MFG	DESCRIPTION	PART NUMBER	QTY	CONNECTOR KIT
△1	GARMIN	GNS430W	011-01060-00	2	011-00351-00
△2	GARMIN	GPS ANTENNA - GA35	013-00235-00	2	

THIS PLAN IS ONLY VALID IN ACCORDANCE WITH THE ORIGINAL MANUALS



Clearance:	Date:	Name:	Signature:
Performed:	16/06/2009	J. WOZNAK	
Checked:	16/06/2009	E. SCHUSTER	

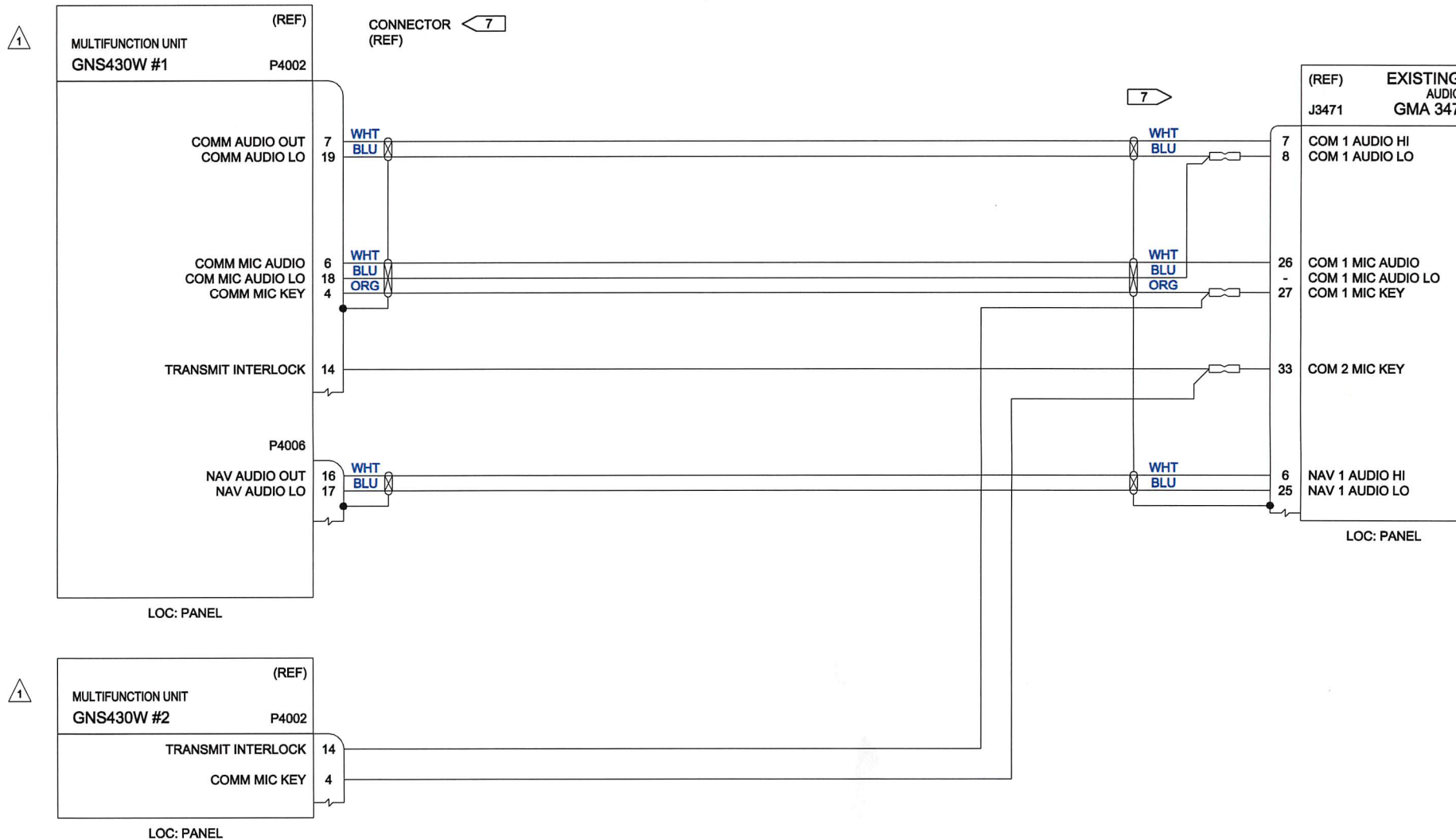
**AVIONIK STRAUBING** GmbH  
 Flugplatzstr. 5 D-94348 Atting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24  
 EASA Part 145 approval DE.145.0010  
 FAA Part 145 approval AQQY020K

Drawing N°:	Drawing Title	Notes:
PART145-09031813-003	WIRING DIAGRAM GARMIN GNS430W #2 - ANTENNA ONLY FOR REFERENCE	PART145-09031813-001 Sheet 2 of 2
A/C (Follow on Inst.) CESSNA 210	S/N: (Follow on Inst.) Order-N: (Follow on Inst.) 09031813	REG: (Follow on Inst.) N6593W



△	MFG	DESCRIPTION	PART NUMBER	QTY	CONNECTOR KIT
△1	GARMIN	GNS430W	011-01060-00	2	011-00351-00
△2	GARMIN	GPS ANTENNA - GA35	013-00235-00	2	

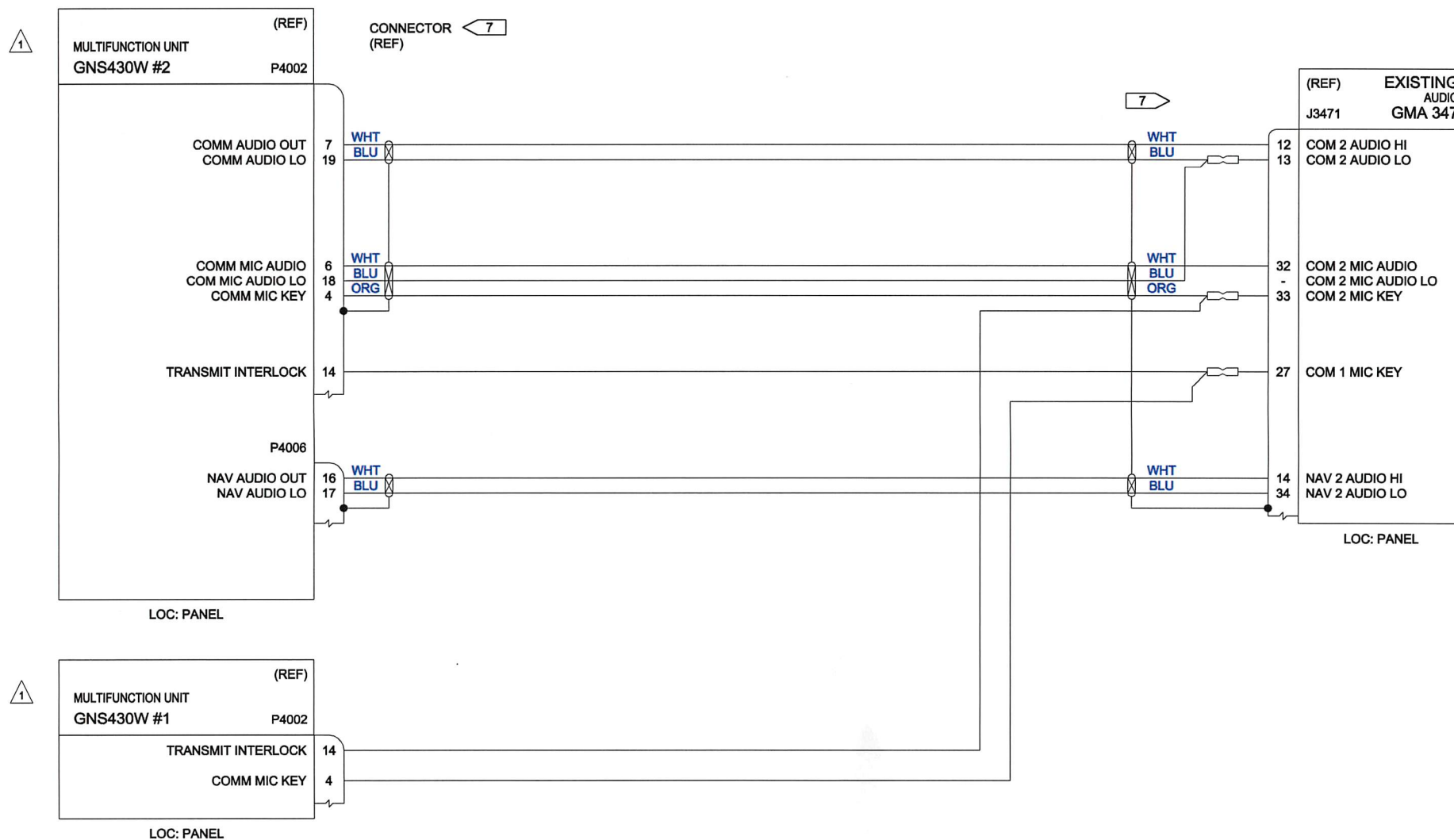
THIS PLAN IS ONLY VALID IN ACCORDANCE WITH THE ORIGINAL MANUALS



Clearance:	Date:	Name:	Signature:	 Flugplatzstr. 5 D-94348 Atting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24 EASA Part 145 approval DE.145.0010 FAA Part 145 approval AQY020K	Drawing N°:	Drawing Title		Notes:
Performed:	16/06/2009	J. WOZNAK			PART145-09031813-004	WIRING DIAGRAM GARMIN GNS430W #1 - AUDIO ONLY FOR REFERENCE		PART145-09031813-001
Checked:	16/06/2009	E. SCHUSTER						Sheet
								1 of 2
					A/C (Follow on Inst.) CESSNA 210	S/N: (Follow on Inst.)	Order-N: (Follow on Inst.) 09031813	REG: (Follow on Inst.) N6593W

△	MFG	DESCRIPTION	PART NUMBER	QTY	CONNECTOR KIT
△1	GARMIN	GNS430W	011-01060-00	2	011-00351-00
△2	GARMIN	GPS ANTENNA - GA35	013-00235-00	2	

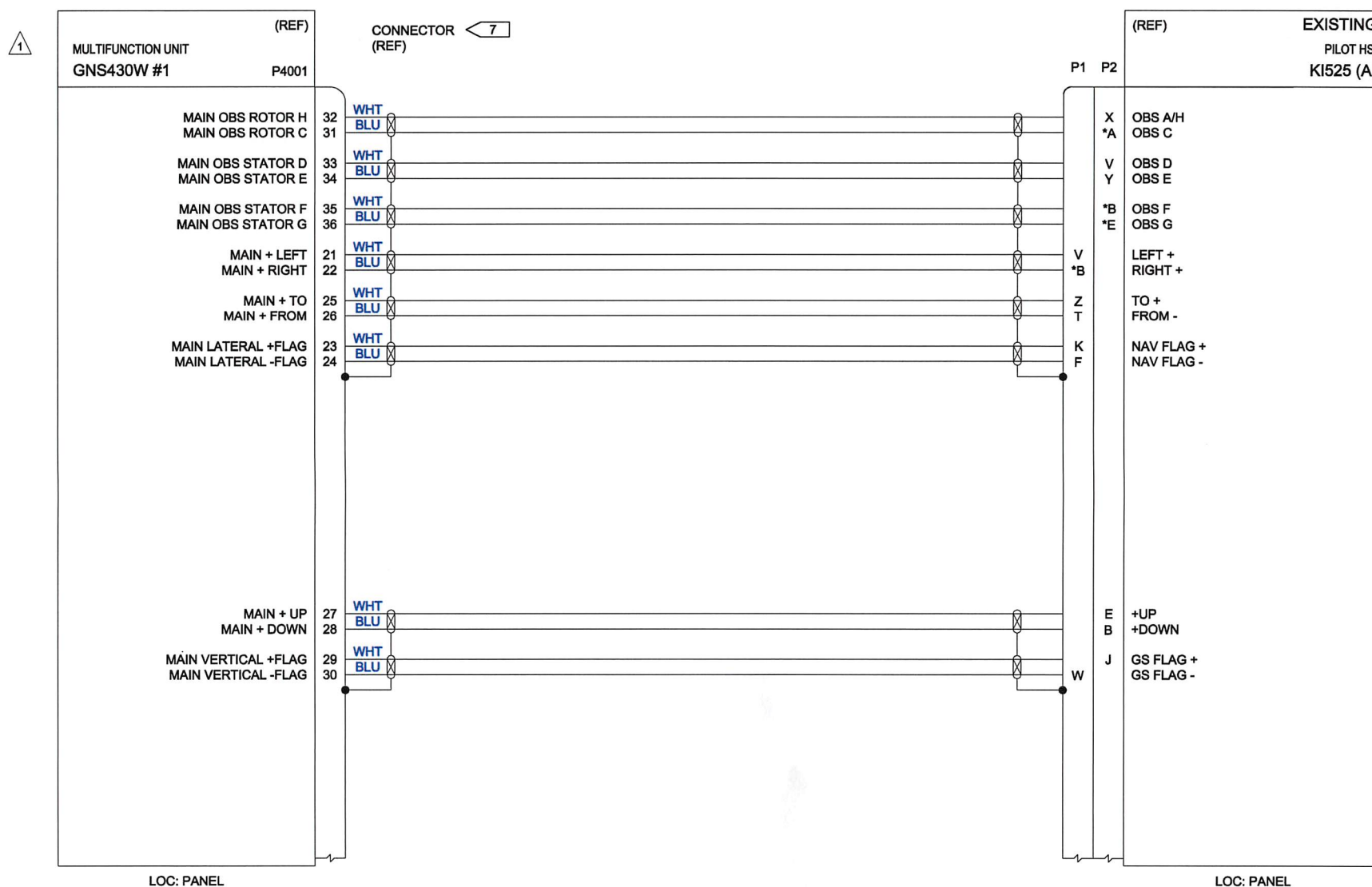
THIS PLAN IS ONLY VALID IN ACCORDANCE WITH THE ORIGINAL MANUALS


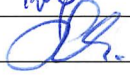


Clearance:	Date:	Name:	Signature:	 Flugplatzstr. 5 D-94348 Atting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24 EASA Part 145 approval DE.145.0010 FAA Part 145 approval AQQY020K	Drawing N°:	Drawing Title		Notes:
Performed:	16/06/2009	J. WOZNAK			PART145-09031813-004	WIRING DIAGRAM GARMIN GNS430W #2 - AUDIO ONLY FOR REFERENCE		PART145-09031813-001
Checked:	16/06/2009	E. SCHUSTER						Sheet
								2 of 2
					A/C (Follow on Inst.) CESSNA 210	S/N: (Follow on Inst.)	Order-N: (Follow on Inst.) 09031813	REG: (Follow on Inst.) N6593W

△	MFG	DESCRIPTION	PART NUMBER	QTY	CONNECTOR KIT
△1	GARMIN	GNS430W	011-01060-00	2	011-00351-00
△2	GARMIN	GPS ANTENNA - GA35	013-00235-00	2	

THIS PLAN IS ONLY VALID IN ACCORDANCE WITH THE ORIGINAL MANUALS



Clearance:	Date:	Name:	Signature:
Performed:	16/06/2009	J. WOZNIAK	
Checked:	16/06/2009	E. SCHUSTER	

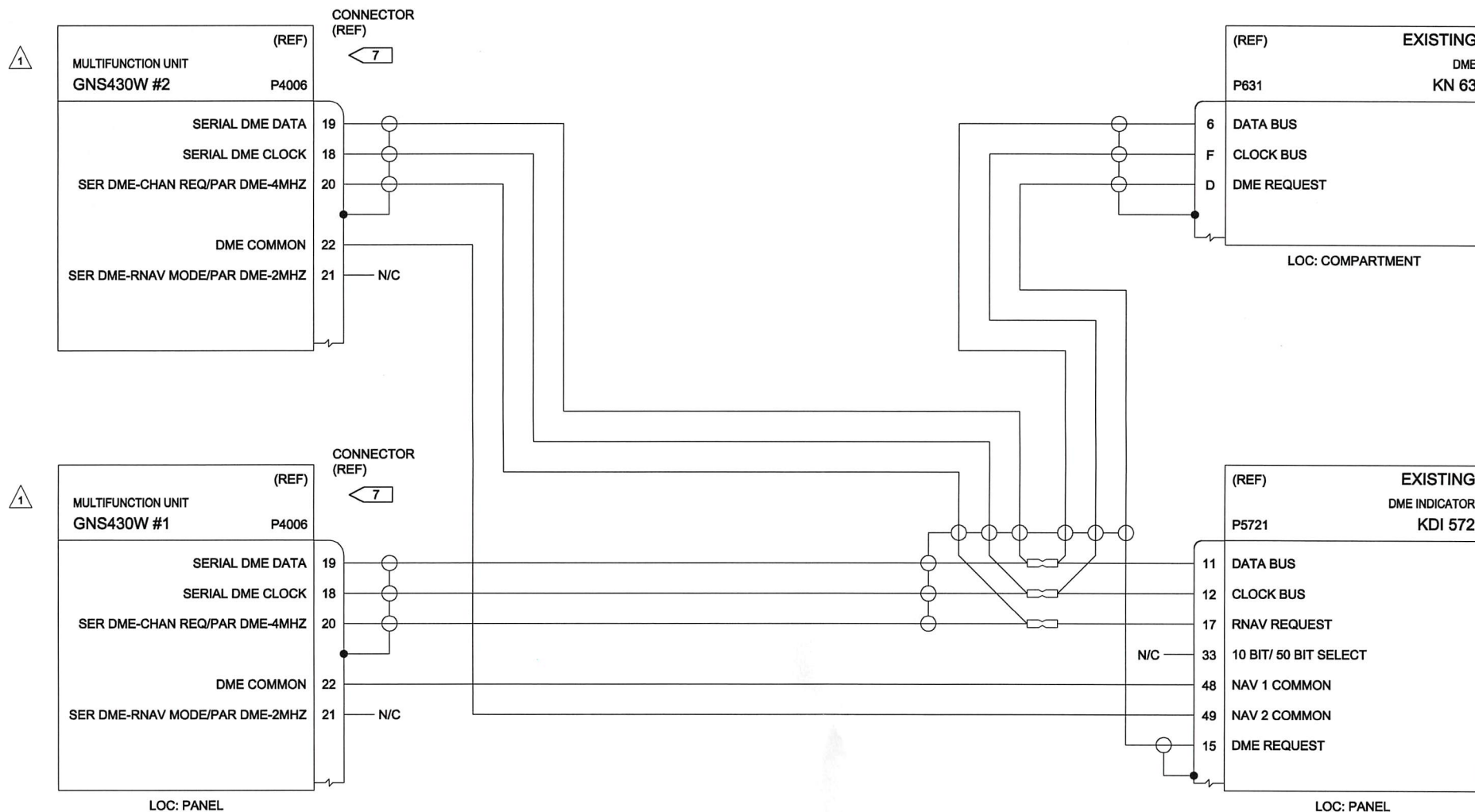
**AVIONIK STRAUBING** GmbH  
 Flugplatzstr. 5 D-94348 Atting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24  
 EASA Part 145 approval DE.145.0010  
 FAA Part 145 approval AQY020K

Drawing N°:	Drawing Title	Notes:
PART145-09031813-005	WIRING DIAGRAM	PART145-09031813-001
	GARMIN GNS430W #1 - MAIN INDICATOR	Sheet
	ONLY FOR REFERENCE	1 of 1
A/C (Follow on Inst.)	S/N: (Follow on Inst.)	REG: (Follow on Inst.)
CESSNA 210	Order-N: (Follow on Inst.)	N6593W



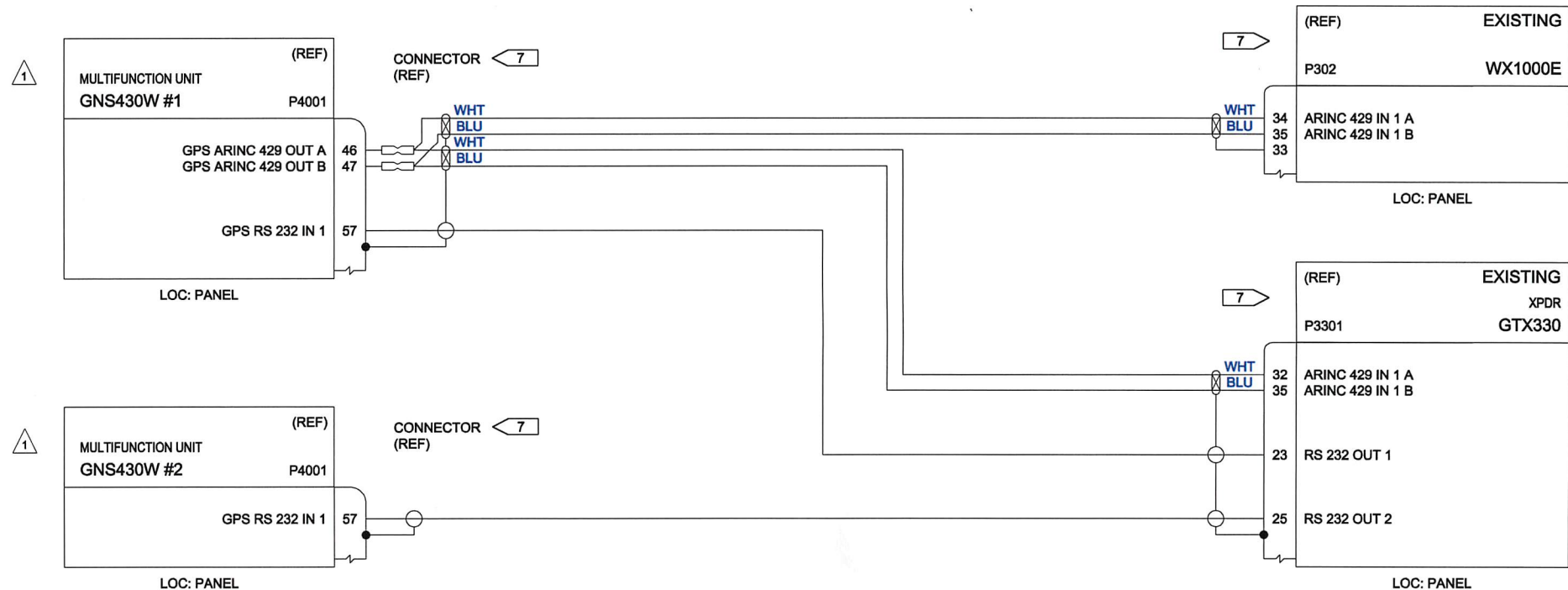
△	MFG	DESCRIPTION	PART NUMBER	QTY	CONNECTOR KIT
△1	GARMIN	GNS430W	011-01060-00	2	011-00351-00
△2	GARMIN	GPS ANTENNA - GA35	013-00235-00	2	

THIS PLAN IS ONLY VALID IN ACCORDANCE WITH THE ORIGINAL MANUALS



Clearance:	Date:	Name:	Signature:	<p>Flugplatzstr. 5 D-94348 Atting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24 EASA Part 145 approval DE.145.0010 FAA Part 145 approval AQY020K</p>	Drawing N°:	Drawing Title	Notes:
Performed:	16/06/2009	J. WOZNAK			PART145-09031813-006	WIRING DIAGRAM GARMIN GNS430W - DME ONLY FOR REFERENCE	PART145-09031813-001
Checked:	16/06/2009	E. SCHUSTER					Sheet
							1 of 1
					A/C (Follow on Inst.) CESSNA 210	S/N: (Follow on Inst.) Order-N: (Follow on Inst.) 09031813	REG: (Follow on Inst.) N6593W

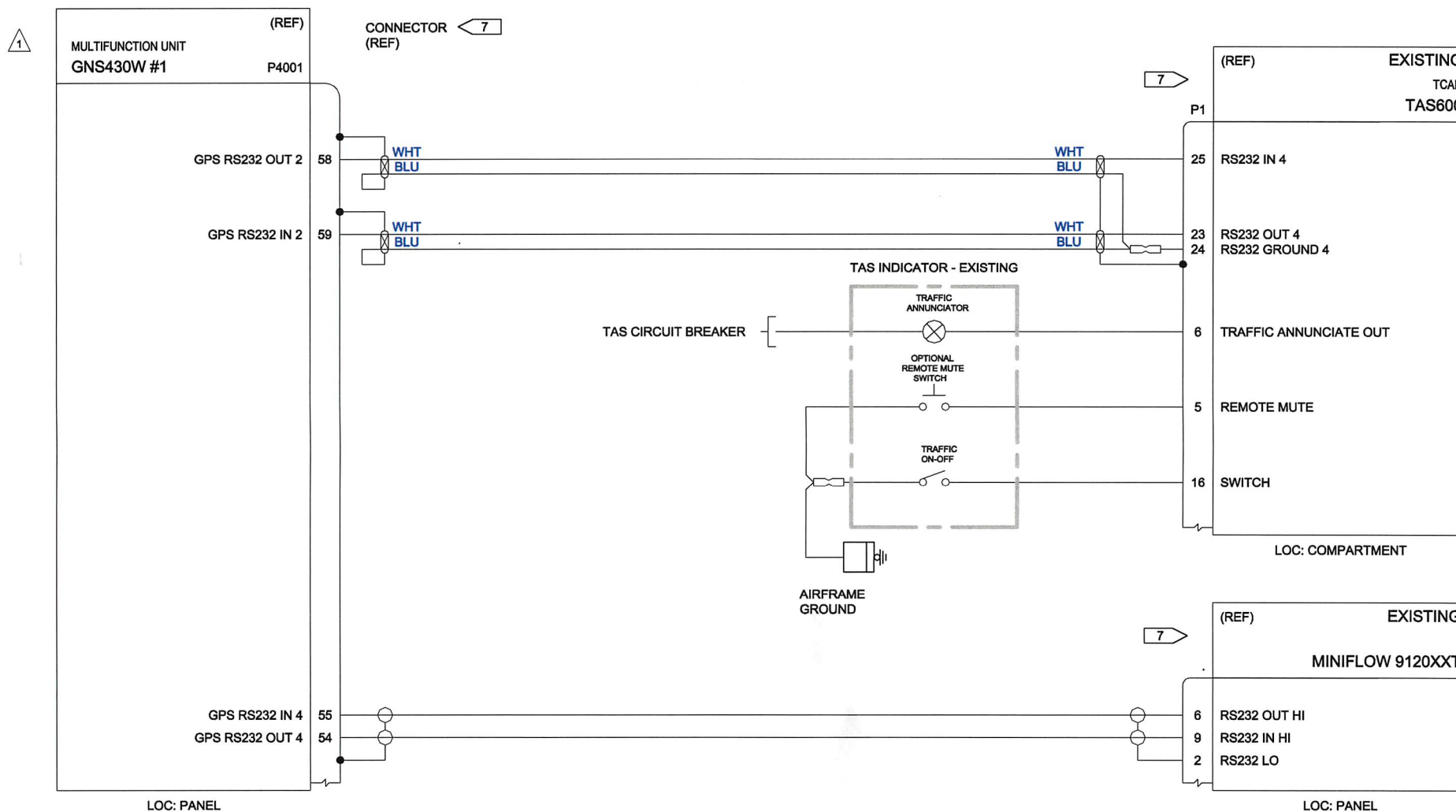
△	MFG	DESCRIPTION	PART NUMBER	QTY	CONNECTOR KIT
△1	GARMIN	GNS430W	011-01060-00	2	011-00351-00
△2	GARMIN	GPS ANTENNA - GA35	013-00235-00	2	



Clearance:	Date:	Name:	Signature:	 Flugplatzstr. 5 D-94348 Atting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24 EASA Part 145 approval DE.145.0010 FAA Part 145 approval AQQY020K	Drawing N°:	Drawing Title		Notes:
Performed:	16/06/2009	J. WOZNAK			PART145-09031813-007	WIRING DIAGRAM GARMIN GNS430W - XPDR ONLY FOR REFERENCE		PART145-09031813-001
Checked:	16/06/2009	E. SCHUSTER						Sheet
								1 of 1
					A/C (Follow on Inst.)	S/N: (Follow on Inst.)	Order-N: (Follow on Inst.)	REG: (Follow on Inst.)
					CESSNA 210		09031813	N6593W

△	MFG	DESCRIPTION	PART NUMBER	QTY	CONNECTOR KIT
△1	GARMIN	GNS430W	011-01060-00	2	011-00351-00
△2	GARMIN	GPS ANTENNA - GA35	013-00235-00	2	

THIS PLAN IS ONLY VALID IN ACCORDANCE WITH THE ORIGINAL MANUALS



Clearance:	Date:	Name:	Signature:
Performed:	16/06/2009	J. WOZNAK	
Checked:	16/06/2009	E. SCHUSTER	

**AVIONIK STRAUBING GmbH**  
 Flugplatzstr. 5 D-94348 Atting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24  
 EASA Part 145 approval DE.145.0010  
 FAA Part 145 approval AQY020K

Drawing N°:	Drawing Title	Notes:
PART145-09031813-008	WIRING DIAGRAM GARMIN GNS430W #1 - TAS ONLY FOR REFERENCE	PART145-09031813-001 Sheet 1 of 2
A/C (Follow on Inst.) CESSNA 210	S/N: (Follow on Inst.) Order-N: (Follow on Inst.) 09031813	REG: (Follow on Inst.) N6593W



△	MFG	DESCRIPTION	PART NUMBER	QTY	CONNECTOR KIT
△1	GARMIN	GNS430W	011-01060-00	2	011-00351-00
△2	GARMIN	GPS ANTENNA - GA35	013-00235-00	2	

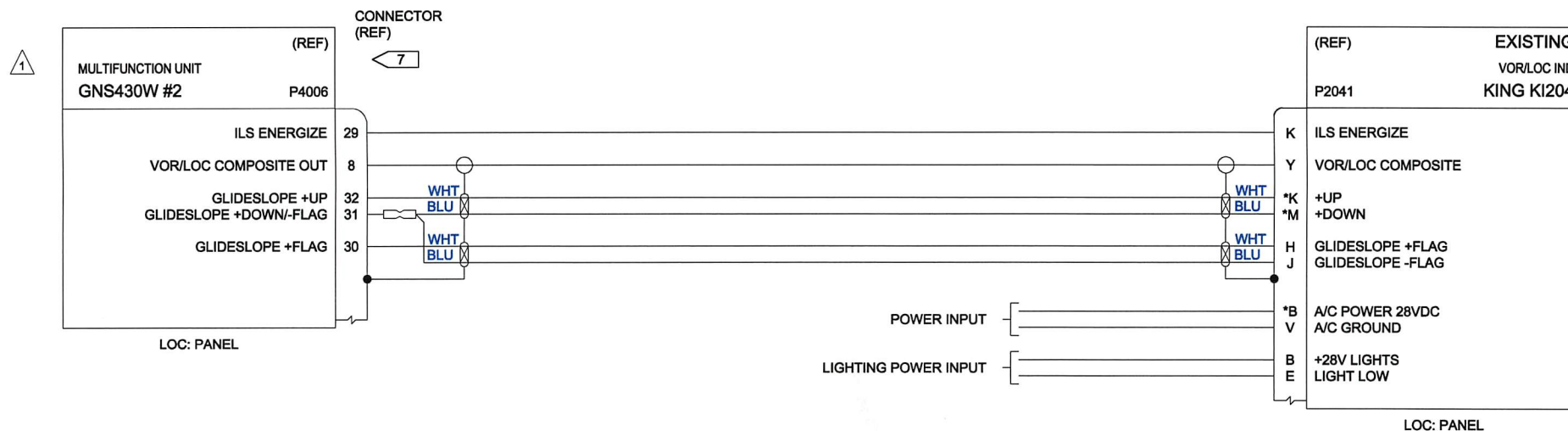
THIS PLAN IS ONLY VALID IN ACCORDANCE WITH THE ORIGINAL MANUALS



Clearance:	Date:	Name:	Signature:	 Flugplatzstr. 5 D-94348 Atting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24 EASA Part 145 approval DE.145.0010 FAA Part 145 approval AQY020K	Drawing N°:	Drawing Title		Notes:
Performed:	16/06/2009	J. WOZNAK			PART145-09031813-008	WIRING DIAGRAM GARMIN GNS430W #2 - TAS		PART145-09031813-001
Checked:	16/06/2009	E. SCHUSTER				ONLY FOR REFERENCE		Sheet
								2 of 2
					A/C (Follow on Inst.) CESSNA 210	S/N: (Follow on Inst.)	Order-N: (Follow on Inst.) 09031813	REG: (Follow on Inst.) N6593W

	MFG	DESCRIPTION	PART NUMBER	QTY	CONNECTOR KIT
1	GARMIN	GNS430W	011-01060-00	2	011-00351-00
2	GARMIN	GPS ANTENNA - GA35	013-00235-00	2	

THIS PLAN IS ONLY VALID IN ACCORDANCE WITH THE ORIGINAL MANUALS



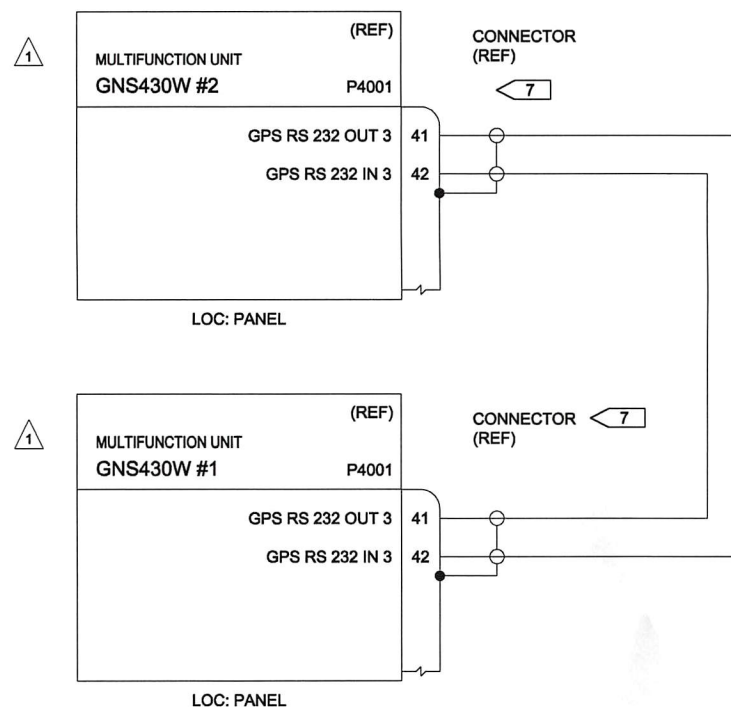
Clearance:	Date:	Name:	Signature:
Performed:	16/06/2009	J. WOZNAK	
Checked:	16/06/2009	E. SCHUSTER	

**AVIONIK STRAUBING** GmbH  
 Flugplatzstr. 5 D-94348 Atting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24  
 EASA Part 145 approval DE.145.0010  
 FAA Part 145 approval AQY020K

Drawing N°:	Drawing Title	Notes:
PART145-09031813-009	WIRING DIAGRAM	PART145-09031813-001
	GNS430W #2 - VOR/LOC IND. (STANDBY)	Sheet
	ONLY FOR REFERENCE	1 of 1
A/C (Follow on Inst.)	S/N: (Follow on Inst.)	REG: (Follow on Inst.)
CESSNA 210	Order-N: (Follow on Inst.)	N6593W

△	MFG	DESCRIPTION	PART NUMBER	QTY	CONNECTOR KIT
△1	GARMIN	GNS430W	011-01060-00	2	011-00351-00
△2	GARMIN	GPS ANTENNA - GA35	013-00235-00	2	

THIS PLAN IS ONLY VALID IN ACCORDANCE WITH THE ORIGINAL MANUALS



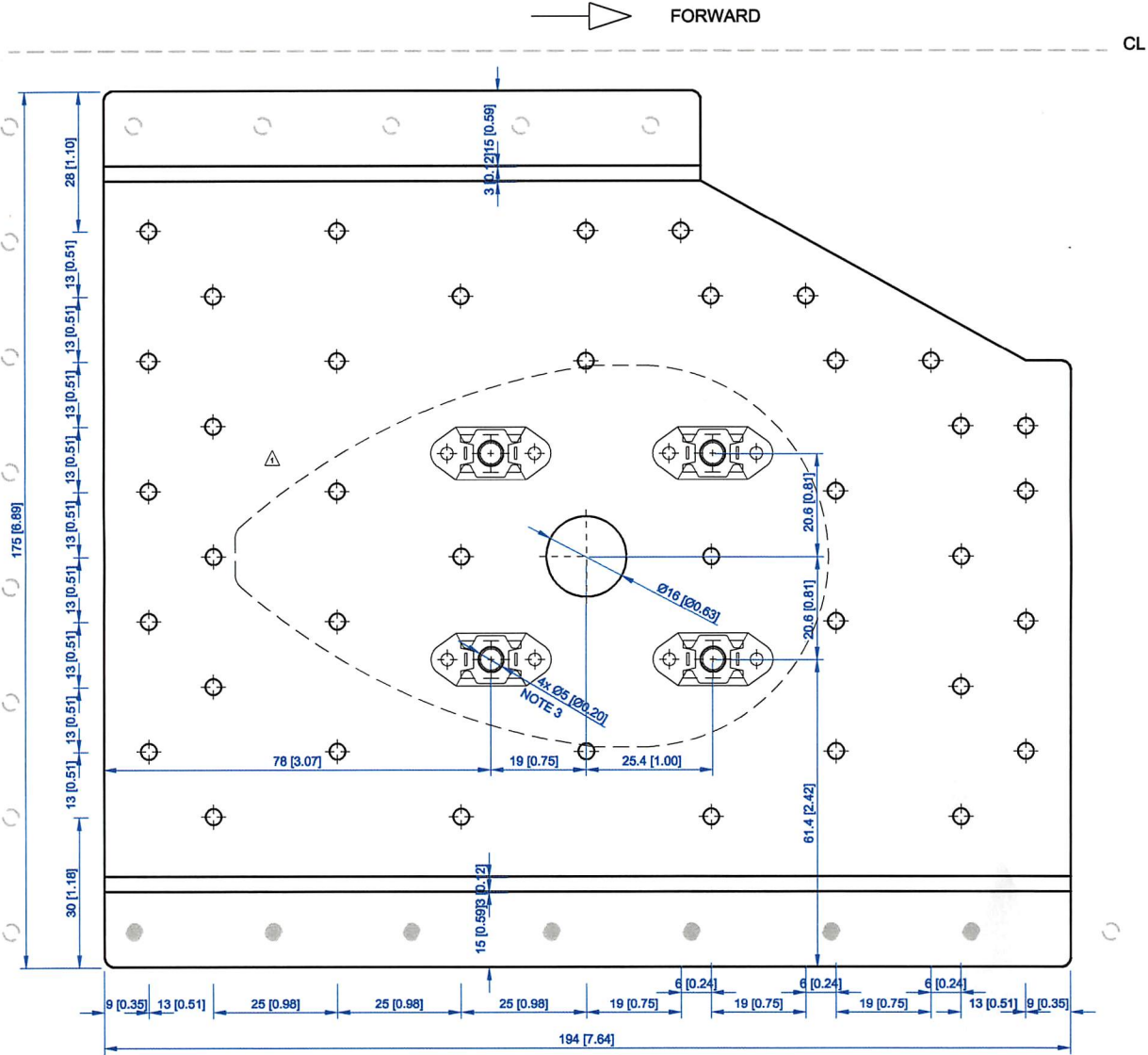
IF TWO OR MORE 430/530 (W(AW)) SERIES UNITS ARE INSTALLED, THE RS-232 LINES ON PX001-41 AND PX001-42 MAY BE CROSSCONNECTED TO CROSSFILL FLIGHT PLANS AND USER WAYPOINTS. TO CROSSFILL FLIGHT PLANS, IT REQUIRED THAT BOTH 430/530 (W(AW)) SERIES UNITS HAVE IDENTICAL DATABASE CYCLE DATES AND MAY BE REQUIRED THAT THEY HAVE IDENTICAL VERSIONS OF MAIN SOFTWARE.

Clearance:	Date:	Name:	Signature:	 Flugplatzstr. 5 D-94348 Atting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24 EASA Part 145 approval DE.145.0010 FAA Part 145 approval AQY020K	Drawing N°:	Drawing Title		Notes:
Performed:	16/06/2009	J. WOZNAK			PART145-09031813-010	WIRING DIAGRAM GNS430W - CROSSFILL		PART145-09031813-001
Checked:	16/06/2009	E. SCHUSTER				ONLY FOR REFERENCE		Sheet
					A/C (Follow on Inst.) CESSNA 210	S/N: (Follow on Inst.)	Order-N: (Follow on Inst.) 09031813	1 of 1 REG: (Follow on Inst.) N6593W



Check the aircraft dimensions before starting the production

△	MFG	DESCRIPTION	PART NUMBER	QTY
△	GARMIN	GA 35	013-00235-00	1



- Notes:
1. ALU EN-AW-2024 (T3) clad or QQ-A-250/5 1,0mm
  2. Existing hole - rivets suited to existing hole, possible NAS1097 AD4.
  3. MS21059L08 (8-32) two lug, floating, anchor nut screws (8-32) PN: MS35190 (A 82°Countersunk), rivets MS20426 AD3- (3/32)
  4. Hole for rivets NAS1097 AD4 (1/8)
  5. Location GPS Antenna: top fuselage panel +1700mm (right side)
  6. After doubler plate conformation to the airplane, prime the doubler (Zinc Chromate Primer).
  7. Seal installation with MIL-S-8802 sealant (or equivalent) between faying surfaces of aircraft skin & doubler, internally/externally bead seal installation, and wet install all rivets.
  8. Determination of dimensions without explicit indication of measurements is strictly forbidden and subject to approval by Avionik Straubing GmbH
  9. Check the aircraft dimensions before starting the production
  11. View angle is from airplane outside
  12. All dimension are in mm [inch]

TOLERANCES	
x.	± 3 mm
.x	± 1 mm
.xx	± 0.2 mm
SCALE	NONE

Clearance:	Date:	Name:	Signature:
Performed:	16/06/2009	J. WOZNAK	
Checked:	16/06/2009	E. SCHUSTER	

**AVIONIK STRAUBING** GmbH



Flugplatzstr. 5 D-94348 Atting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24

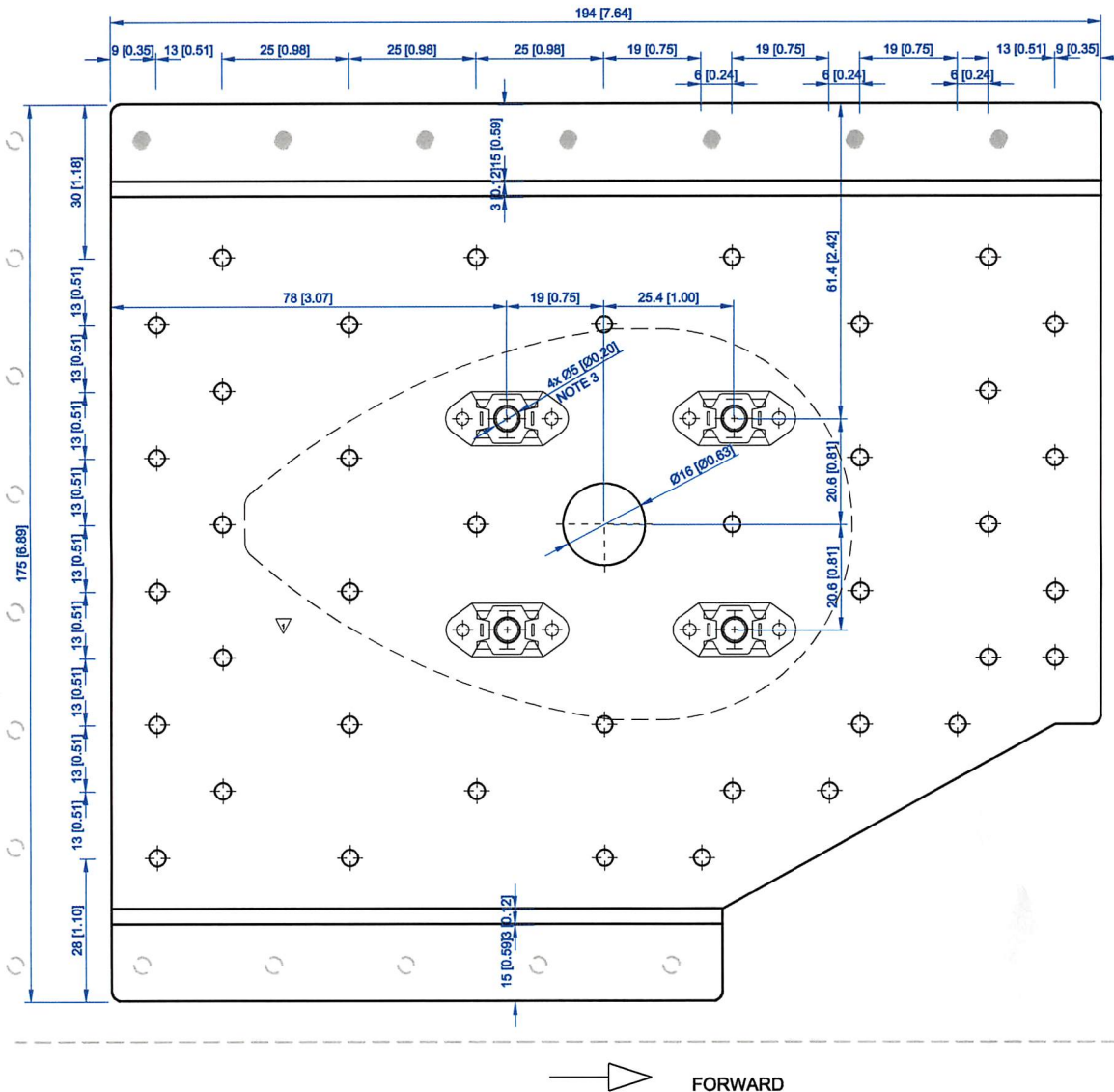
EASA Part 145 approval DE.145.0010  
FAA Part 145 approval AQQY020K

Drawing N°:	Drawing Title		Notes:
PART145-09031813-011	DOUBLER PLATE		12
	GA35 GPS ANTENNA (RIGHT SIDE)		Sheet
	ONLY FOR REFERENCE		1 of 2
A/C (Follow on Inst.)	S/N: (Follow on Inst.)	Order-N: (Follow on Inst.)	REG: (Follow on Inst.)
CESSNA 210		09031813	N6593W

△	MFG	DESCRIPTION	PART NUMBER	QTY
△	GARMIN	GA 35	013-00235-00	1

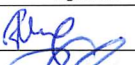

#### Notes:

1. ALU EN-AW-2024 (T3) clad or QQ-A-250/5 1,0mm
2. Existing hole - rivets suited to existing hole, possible NAS1097 AD4.
3.  MS21059L08 (8-32) two lug, floating, anchor nut screws (8-32) PN: MS35190 (A 82° Countersunk), rivets MS20426 AD3- (3/32)
4.  Hole for rivets NAS1097 AD4 (1/8)
5. Location GPS Antenna: top fuselage panel +1700 (left side)
6. After doubler plate conformation to the airplane, prime the doubler (Zinc Chromate Primer).
7. Seal installation with MIL-S-8802 sealant (or equivalent) between faying surfaces of aircraft skin & doubler, internally/externally bead seal installation, and wet install all rivets.
8. Determination of dimensions without explicit indication of measurements is strictly forbidden and subject to approval by Avionik Straubing GmbH
9. Check the aircraft dimensions before starting the production
11. View angle is from airplane outside
12. All dimension are in mm [inch]



#### TOLERANCES

x.	± 3 mm
.x	± 1 mm
.xx	± 0.2 mm
SCALE	NONE

Clearance:	Date:	Name:	Signature:
Performed:	16/06/2009	J. WOZNAK	
Checked:	16/06/2009	E. SCHUSTER	

**AVIONIK STRAUBING** GmbH  
 Flugplatzstr. 5 D-94348 Attling Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24  
 EASA Part 145 approval DE.145.0010  
 FAA Part 145 approval AQQY020K

Drawing N°:	Drawing Title		Notes:
PART145-09031813-011	DOUBLER PLATE		12
	GA35 GPS ANTENNA (LEFT SIDE)		Sheet
	ONLY FOR REFERENCE		2 of 2
A/C (Follow on Inst.)	S/N: (Follow on Inst.)	Order-N: (Follow on Inst.)	REG: (Follow on Inst.)
CESSNA 210		09031813	N6593W

△	MFG	DESCRIPTION	PART NUMBER	QTY	CONNECTOR KIT
1	GARMIN	GNS430W	011-01080-00	2	011-00351-00
2	GARMIN	GPS ANTENNA - GA35	013-00235-00	2	

THIS PLAN IS ONLY VALID IN ACCORDANCE WITH THE ORIGINAL MANUALS

## GNS430/530 (W/AW) CONFIGURATION PROCEDURE

1. WITH GPS 430/530 (W/AW) TURNED OFF. PRESS AND HOLD "ENT" KEY AND TURN UNIT ON.
2. ENSURE CURSOR IS OFF. ROTATE SMALL RIGHT KNOB TO CHANGE PAGES.
3. TO CHANGE DATA ON THE DISPLAYED CONFIGURATION PAGE. PRESS THE SMALL RIGHT KNOB (CRSR) TO TURN ON THE CURSOR. TURN THE LARGE OR SMALL KNOB TO CHANGE A FIELD THAT THE CURSOR IS ON.
4. ONCE THE DESIRED SELECTION IS MADE. PRESS THE "ENT" KEY TO ACCEPT THE ENTRY.
5. CONFIGURE THE FOLLOWING PAGES AS SHOWN.

**MAIN ARINC 429 CONFIG**

**SPEED DATA**

IN 1	LOW	OFF
IN 2	HIGH	OFF
OUT	LOW	GAMA 429

SDI: COMMON

VNAV: DISABLE LABELS

**MAIN CDI / OBS CONF**

	CDI	NAV FLAG	TO-FROM
LAT	CENTER	HIDDEN	HIDDEN
VERT	CENTER	HIDDEN	

SELECTED COURSE: 150.0 CALIBRATE TO 150°

CDI: VLOC

OBI SOURCE: ALWAYS GPS

**MAIN RS232 CONFIG**

	INPUT	OUTPUT
CHNL 1	ICARUS	OFF
CHNL 2	RYAN TCAD	RYAN TCAD
CHNL 3	CROSSFILL	CROSSFILL
CHNL 4	SHADIN-FADC	AVIATION
CHNL 5	OFF	OFF

**VOR / LOC / GS CDI**

	CDI	NAV FLAG	SPR FLAG	TO-FROM
LAT	CENTER	HIDE	HIDE	HIDE
VERT	CENTER	HIDE	HIDE	

SELECTED COURSE: NO INPUT

DME CHANNEL MODE: KING SERIAL

**MAIN SYSTEM CONFIG**

CONFIGURE: FUEL

FUEL TYPE: AV GAS

**VOR / LOC / GS ARINC 429 CONFIG**


	RX	TX
SPEED	LOW	LOW
SDI	VOR / ILS1	
DME MODE	DIRECTED FREQ 1	

6. SKIP MAIN INPUTS PAGE 1 AND 2.
7. SKIP MAIN DISCRETE INPUTS.
8. SKIP MAIN DISCRETE OUTPUTS.
9. SKIP MAIN CDI/OBS CONFIG.
10. WHEN COMPLETE. TURN OFF.

- 11 OBS ALIGNMENT
- 12 ONLY GNS530 (W/AW)
- 13 FOR #1 (PILOT): VOR/ILS 1  
FOR #2 (COPILOT): VOR/ILS 2

**GPS VERTICAL OFFSET**

GPS ANTENNA HEIGHT ABV GND: 6 ft

Clearance:	Date:	Name:	Signature:
Performed:	16/06/2009	J. WOZNAK	
Checked:	16/06/2009	E. SCHUSTER	

**AVIONIK STRAUBING GmbH**  
 Flugplatzstr. 5 D-94348 Altting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24  
 EASA Part 145 approval DE.145.0010  
 FAA Part 145 approval AQY020K

Drawing N°:	Drawing Title:	Notes:
PART145-09031813-010	WIRING DIAGRAM GNS430W #1 - CONFIGURATION ONLY FOR REFERENCE	13 Sheet 1 of 2
A/C (Follow on Inst.) CESSNA 210	S/N: (Follow on Inst.) 09031813	REG: (Follow on Inst.) N8593W



△	MFG	DESCRIPTION	PART NUMBER	QTY	CONNECTOR KIT
△1	GARMIN	GNS430W	011-01060-00	2	011-00351-00
△2	GARMIN	GPS ANTENNA - GA35	013-00235-00	2	

THIS PLAN IS ONLY VALID IN ACCORDANCE WITH THE ORIGINAL MANUALS

## GNS430/530 (W/AW) CONFIGURATION PROCEDURE

1. WITH GPS 430/530 (W/AW) TURNED OFF. PRESS AND HOLD "ENT" KEY AND TURN UNIT ON.
2. ENSURE CURSOR IS OFF. ROTATE SMALL RIGHT KNOB TO CHANGE PAGES.
3. TO CHANGE DATA ON THE DISPLAYED CONFIGURATION PAGE, PRESS THE SMALL RIGHT KNOB (CRSR) TO TURN ON THE CURSOR. TURN THE LARGE OR SMALL KNOB TO CHANGE A FIELD THAT THE CURSOR IS ON.
4. ONCE THE DESIRED SELECTION IS MADE, PRESS THE "ENT" KEY TO ACCEPT THE ENTRY.
5. CONFIGURE THE FOLLOWING PAGES AS SHOWN.

**MAIN ARINC 429 CONFIG**

**SPEED DATA**

IN 1	LOW OFF
IN 2	LOW OFF
OUT	LOW OFF

SDI:

VNAV:

**MAIN CDI / OBS CONF**

	CDI	NAV FLAG	TO-FROM
LAT	CENTER	HIDDEN	HIDDEN
VERT	CENTER	HIDDEN	

SELECTED COURSE:

CDI:  OBI SOURCE:

**MAIN RS232 CONFIG**

	INPUT	OUTPUT
CHNL 1	ICARUS	OFF
CHNL 2	RYAN TCAD	RYAN TCAD
CHNL 3	CROSSFILL	CROSSFILL
CHNL 4	OFF	AVIATION
CHNL 5	OFF	OFF

**VOR / LOC / GS CDI**

	CDI	NAV FLAG	SPR FLAG	TO-FROM
LAT	CENTER	HIDE	HIDE	HIDE
VERT	CENTER	HIDE	HIDE	

SELECTED COURSE:

DME CHANNEL MODE:

**MAIN SYSTEM CONFIG**

CONFIGURE:

FUEL TYPE:

**VOR / LOC / GS ARINC 429 CONFIG**

	RX	TX
SPEED	LOW	LOW

SDI:



DME MODE:

6. SKIP MAIN INPUTS PAGE 1 AND 2.
7. SKIP MAIN DISCRETE INPUTS.
8. SKIP MAIN DISCRETE OUTPUTS.
9. SKIP MAIN CDI/OBS CONFIG.
10. WHEN COMPLETE, TURN OFF.

- 11 OBS ALIGNMENT
- 12 ONLY GNS530 (W/AW)
- 13 FOR #1 (PILOT): VOR/ILS 1  
FOR #2 (COPLOT): VOR/ILS 2

**GPS VERTICAL OFFSET**

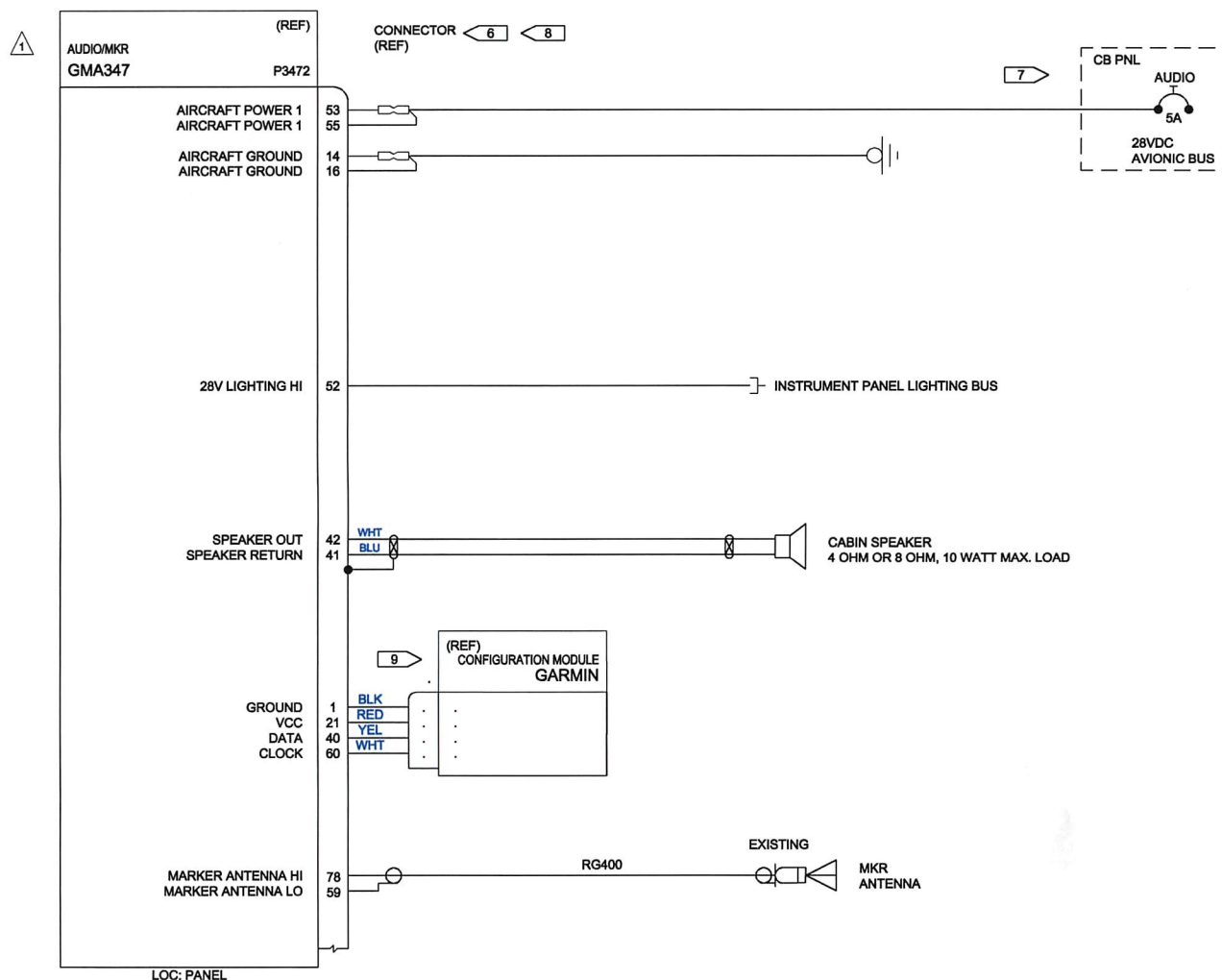
GPS ANTENNA HEIGHT ABV GND:

Clearance:	Date:	Name:	Signature:
Performed:	16/06/2009	J. WOZNAK	
Checked:	16/06/2009	E. SCHUSTER	

**AVIONIK STRAUBING GmbH**  
 Flugplatzstr. 5 D-94348 Atting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24  
 EASA Part 145 approval DE.145.0010  
 FAA Part 145 approval AQQY020K

Drawing N°:	Drawing Title	Notes:
PART145-09031813-010	WIRING DIAGRAM GNS430W #2 - CONFIGURATION ONLY FOR REFERENCE	13 Sheet 2 of 2
A/C (Follow on Incl.) CESSNA 210	S/N: (Follow on Incl.) 09031813	Order-N°: (Follow on Incl.) N6593W

△	MFG	DESCRIPTION	PART NUMBER	QTY
△	GARMIN	GMA347	011-00807-00	1



# NOTES :

- ALL WIRES 22 AWG MINIMUM PER MIL-W-22759 UNLESS OTHERWISE NOTED
- TWISTED SHIELDED PAIR PER MIL-C-27500-22 XXX TWISTED SHIELDED TRIPLE PER MIL-C-27500-22 XXX
- AN (\*) PRECEDING A LETTER INDICATES LOWER CASE
- DASHED LINES INDICATES EXISTING WIRING INSTALLATION AND TO BE REUSED
- SOLID LINES INDICATES ADDITIONAL WIRING INSTALLATION
- GARMIN INSTALLATION KIT: 011-00852-00
- CIRCUIT BREAKER, P/N 7277-X-X ( OR EQUIVALENT )
- MISC HARDWARE REQD:
  - M81824/1-1 SPLICE
  - M81824/1-2 SPLICE
  - M81824/1-3 SPLICE
  - SLC745-14 SLEEVE
  - SLC745-15 SLEEVE
  - NAS 1745-14 SOLDER SLEEVE
  - NAS 1745-15 SOLDER SLEEVE ( OR EQUIVALENT )
- GARMIN CONFIGURATION MODUL KIT: 011-00979-00
- THIS PLAN IS ONLY VALID IN ACCORDANCE WITH THE ORIGINAL MANUALS

Clearance:	Date:	Name:	Signature:
Performed:	16/06/2009	J. WOZNAK	
Checked:	16/06/2009	E. SCHUSTER	

**AVIONIK STRAUBING** GmbH  
 Flugplatzstr. 5 D-94348 Atting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24  
 EASA Part 145 approval DE.145.0010  
 FAA Part 145 approval AQY020K

Drawing N°:	Drawing Title		Notes:
PART145-09031813-012	WIRING DIAGRAM GARMIN GMA347 ONLY FOR REFERENCE		10 Sheet 1 of 4
A/C (Follow on Inst.)	S/N: (Follow on Inst.)	Order-N: (Follow on Inst.)	REG: (Follow on Inst.)
CESSNA 210		09031813	N6593W



1

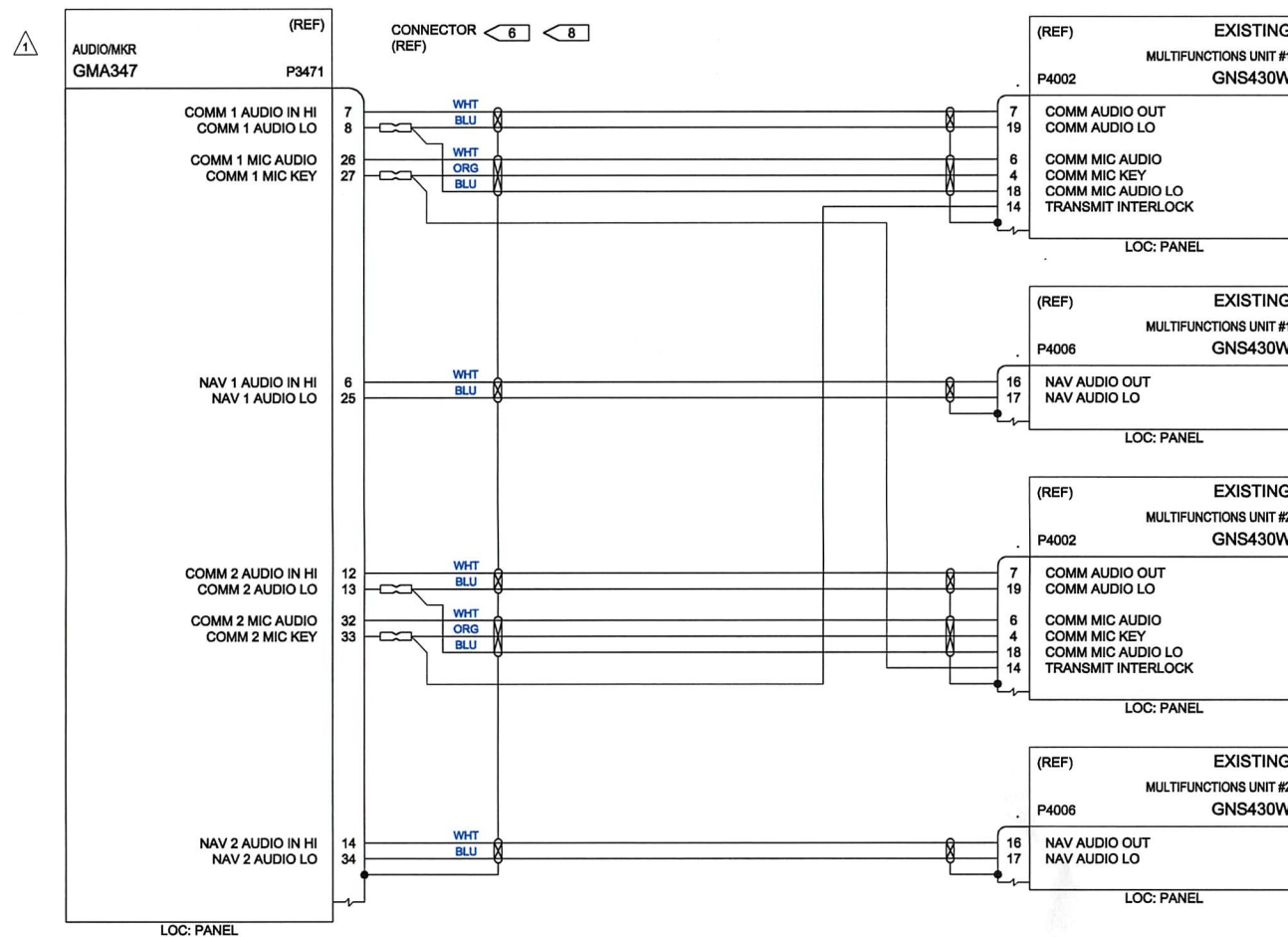


1. ALL WIRES 22 AWG MINIMUM PER MIL-W-22759  
UNLESS OTHERWISE NOTED
2. TWISTED SHIELDED PAIR PER MIL-C-27500-22 XXX  
TWISTED SHIELDED TRIPLE PER MIL-C-27500-22 XXX
3. AN (") PRECEDING A LETTER INDICATES LOWER CASE
4. DASHED LINES INDICATES EXISTING WIRING INSTALLATION  
AND TO BE REUSED
5. SOLID LINES INDICATES ADDITIONAL WIRING INSTALLATION

- 9** GARMIN CONFIGURATION MODUL KIT: 011-00979-00

Clearance:	Date:	Name:	Signature:	 <b>AVIONIK STRAUBING</b> GmbH Flugplatzstr. 5 D-94348 Atting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24 EASA Part 145 approval DE.145.0010 FAA Part 145 approval AQQY020K	Drawing N°:	Drawing Title		Notes:
Performed:	16/06/2009	J. WOZNIAK			PART145-09031813-012	WIRING DIAGRAM GARMIN GMA347		10
Checked:	16/06/2009	E. SCHUSTER				ONLY FOR REFERENCE		Sheet
					A/C (Follow on Inset.)	S/N: (Follow on Inset.)	Order-N: (Follow on Inset.)	2 of 4
					CESSNA 210		09031813	N6593W

	MFG	DESCRIPTION	PART NUMBER	QTY
	GARMIN	GMA347	011-00807-00	1




#### NOTES :

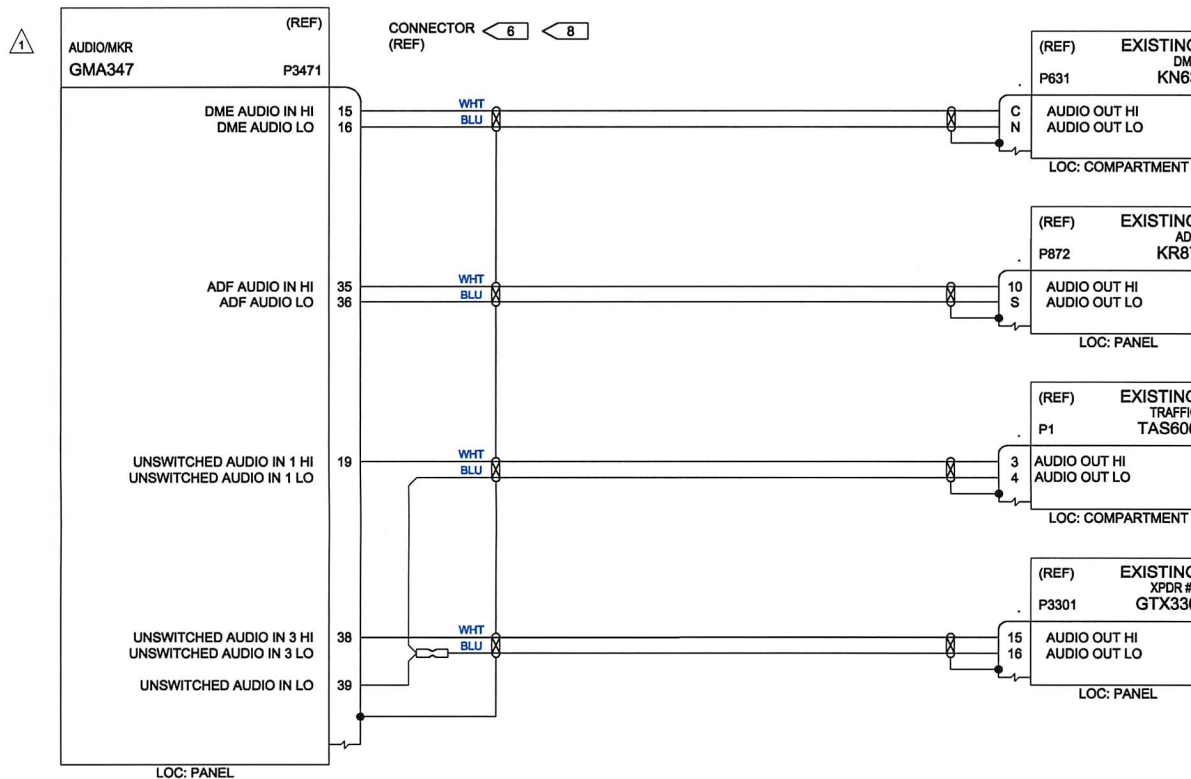
- ALL WIRES 22 AWG MINIMUM PER MIL-W-22759 UNLESS OTHERWISE NOTED
  - TWISTED SHIELDED PAIR PER MIL-C-27500-22 XXX TWISTED SHIELDED TRIPLE PER MIL-C-27500-22 XXX
  - AN (\*) PRECEDING A LETTER INDICATES LOWER CASE
  - DASHED LINES INDICATES EXISTING WIRING INSTALLATION AND TO BE REUSED
  - SOLID LINES INDICATES ADDITIONAL WIRING INSTALLATION
- GARMIN INSTALLATION KIT: 011-00652-00
- CIRCUIT BREAKER, P/N 7277-X-X (OR EQUIVALENT)
- MISC HARDWARE REQD: M81824/1-1 SPLICE  
M81824/1-2 SPLICE  
M81824/1-3 SPLICE  
SLC745-14 SLEEVE  
SLC745-15 SLEEVE  
NAS 1745-14 SOLDER SLEEVE  
NAS 1745-15 SOLDER SLEEVE  
(OR EQUIVALENT)
- GARMIN CONFIGURATION MODUL KIT: 011-00979-00
- THIS PLAN IS ONLY VALID IN ACCORDANCE WITH THE ORIGINAL MANUALS

Clearance:	Date:	Name:	Signature:
Performed:	16/06/2009	J. WOZNAK	
Checked:	16/06/2009	E. SCHUSTER	





**AVIONIK STRAUBING** GmbH  
 Flugplatzstr. 5 D-94348 Atting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24  
 EASA Part 145 approval DE.145.0010  
 FAA Part 145 approval AQQY020K

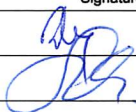
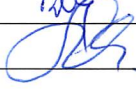
Drawing N°:	Drawing Title	Notes:
PART145-09031813-012	WIRING DIAGRAM GARMIN GMA347 ONLY FOR REFERENCE	10 Sheet 3 of 4
A/C (Follow on Inst.) CESSNA 210	S/N: (Follow on Inst.) Order-N: (Follow on Inst.) 09031813	REG: (Follow on Inst.) N6593W

	MFG	DESCRIPTION	PART NUMBER	QTY
	GARMIN	GMA347	011-00807-00	1



#### NOTES :

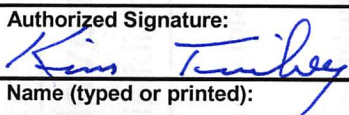
- ALL WIRES 22 AWG MINIMUM PER MIL-W-22759 UNLESS OTHERWISE NOTED
  - TWISTED SHIELDED PAIR PER MIL-C-27500-22 XXX TWISTED SHIELDED TRIPLE PER MIL-C-27500-22 XXX
  - AN (\*) PRECEDING A LETTER INDICATES LOWER CASE
  - DASHED LINES INDICATES EXISTING WIRING INSTALLATION AND TO BE REUSED
  - SOLID LINES INDICATES ADDITIONAL WIRING INSTALLATION
-  6 GARMIN INSTALLATION KIT: 011-00652-00
-  7 CIRCUIT BREAKER, P/N 7277-X-X ( OR EQUIVALENT )
-  8 MISC HARDWARE REQD: M81824/1-1 SPLICE  
M81824/1-2 SPLICE  
M81824/1-3 SPLICE  
SLC745-14 SLEEVE  
SLC745-15 SLEEVE  
NAS 1745-14 SOLDER SLEEVE  
NAS 1745-15 SOLDER SLEEVE  
( OR EQUIVALENT )
-  9 GARMIN CONFIGURATION MODUL KIT: 011-00979-00
10. THIS PLAN IS ONLY VALID IN ACCORDANCE WITH THE ORIGINAL MANUALS

Clearance:	Date:	Name:	Signature:
Performed:	16/06/2009	J. WOZNAK	
Checked:	16/06/2009	E. SCHUSTER	

**AVIONIK STRAUBING GmbH**  
 Flugplatzstr. 5 D-94348 Atting Phone: (+49) 9429-9424-0 Fax: (+49) 9429-9424-24  
 EASA Part 145 approval DE.145.0010  
 FAA Part 145 approval AQQY020K

Drawing N°:	Drawing Title	Notes:
PART145-09031813-012	WIRING DIAGRAM GARMIN GMA347	10
	ONLY FOR REFERENCE	Sheet
		4 of 4
A/C (Follow on Inst.)	S/N: (Follow on Inst.)	Order-N: (Follow on Inst.)
CESSNA 210		09031813
		N6593W



1. Approving National Aviation Authority/Country  FAA / United States		2. <b>AUTHORIZED RELEASE CERTIFICATE</b> FAA Form 8130-3 AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number:  09078	
4. Organization Name and Address  S-TEC Corporation, One S-TEC Way, Mineral Wells, TX 76067-9236      Production Approval #: PQ0445SW						5. Work Order / Contract / Invoice Number  234694	
6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial Number	12. Status/Work	
List Attached							
13. Remarks <div style="text-align: right; margin-right: 100px;">Export - GERMANY</div> <p>The part(s) listed on the attached document with the form tracking number 09078 are sub-components of an FAA/PMA assembly, ST-378, STC # SA6095SW-D, PMA Supplement # 22.</p>							
14. Certifies the items identified above were manufactured in conformity to:  <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13				19. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13  Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature: 		16. Approval/ Authorization No.: DMIR831203SW		20. Authorized Signature:		21. Approval/Certificate No	
17. Name (typed or printed): Kim Trickey		18. Date (m/d/y): June 15, 2009		22. Name (typed or printed):		23. Date (m/d/y)	
User / Installer Responsibilities							
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/ component/assembly.</p> <p>Where the user/ installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/ installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/ installer before the aircraft may be flown.</p>							

# Airworthiness Approval Tag

## User / Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1 it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1.

Statements in blocks 14 and 15 do not constitute installation certification. In all cases the aircraft maintenance record must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown.

*The FAA Form 8130-3 and JAA Form One are equivalent. Other countries such as Canada also have equivalent acceptable documents.*



6. Item	7. Description	8. Part Number	9. Eligibility *	10. Quantity	11. Serial Number	12. Status/Work
1.	GPSS CONVERTER	ST-901	N/A	1	N/A	NEW
2.	INTERFACE, 429 GPSS	01278-3		1		"
	GPSS SWITCH	(03975			03975-0917-06329	
	GPSS BOX	(03976			03976-0924-10808E/A	
3.	KIT	HK-901-R		1	N/A	"