

REVISIONS			
REV	DESCRIPTION	DATE	ECO No.
6	UPDATE GIA SW, GDU BB, & CFG P/N	1/17/08	50251
7	UPDATE GTX SW P/N	2/15/08	50929
8	UPDATE TABLE A FOR 0321.19 SW	4/08/08	52314

IMPORTANT!
INSTALLATION OF AN AUTOPILOT IS NOT AUTHORIZED UNDER THIS STC CONFIGURATION.

-4 STC CONFIGURATION GENERAL ARRANGMENT DRAWING

NOTES:

1. STC REQUIREMENTS:
REFER TO GARMIN MASTER DRAWING LIST, 005-00400-01.

THE FOLLOWING ARE PREREQUISITE OR CONCURRENT REQUIREMENTS FOR THIS STC INSTALLATION:

-STC #SA01254WI (REFER TO MASTER DRAWING LIST 005-C0004-00 FOR DETAILS)

WITH THIS STC INSTALLED, THIS GENERAL ARRANGEMENT DRAWING SUPERCEDES ALL PREVIOUS G1000/GFC700 SOFTWARE AND LRU HARDWARE DEFINITIONS, INCLUDING THE FOLLOWING DRAWINGS:
005-00149-28 - REQUIRED EQUIPMENT LIST FOR G1000 IN DIAMOND DA40
005-00305-00 - REQUIRED EQUIPMENT LIST FOR G1000 IN DIAMOND DA40

2. ALL G1000 LRUS REMAIN AS INSTALLED PER STC #SA01254WI. FOR DETAILED INSTALATION INFORMATION, SEE 005-00304-00.
3. -4 STC CONFIGURATION (G1000, NO WAAS, NO AP) HARDWARE/SOFTWARE HAS BEEN APPROVED FOR G1000 SYSTEM SOFTWARE 0321.19, 0321.17 OR 0369.13. NEW FACTORY INSTALLATIONS SHOULD USE G1000 SYSTEM SOFTWARE 0321.19, DEFINED IN TABLE A.

TABLES C AND D LIST HARDWARE / SOFTWARE DEFINITION FOR LEGACY G1000 SYSTEM SOFTWARE 0321.17 AND 0369.13.

MISCELLANEOUS G1000 DATACARDS ARE LISTED IN TABLE B.

NOTE: IF PLANNING TO INSTALL GARMIN'S SYNTHETIC VISION & PATHWAYS FEATURE PER STC SA01480WI-D, THE 0321.19 SYSTEM SOFTWARE OR LATER IS REQUIRED FOR NON-WAAS SYSTEMS.

FOR NEW INSTALLATIONS:
PERFORM POST INSTALLATION CHECKOUT PROCEDURE, 190-00544-02 TO LOAD SYSTEM SOFTWARE AND CONDUCT SYSTEM TESTING. NOTE THAT WITH THIS STC INSTALLED, THE 190-00544-02 PICP SUPERCEDES ALL PREVIOUS VERSIONS AND REVISIONS OF CHECKOUT DOCUMENTATION, INCLUDING P/N 190-00544-00, 190-00492-02, AND 190-00303-06.

FOR FIELD UPGRADES:
FOLLOW THE UPGRADE PROCEDURES IN 190-00544-03, FIELD UPGRADE INSTRUCTIONS, TO LOAD SYSTEM SOFTWARE AND CONDUCT SYSTEM TESTING. NOTE THAT WITH THIS STC INSTALLED, THE 190-00544-03 FIELD UPGRADE INSTRUCTIONS SUPERCEDES ALL PREVIOUS VERSIONS AND REVISIONS OF UPGRADE DOCUMENTATION, INCLUDING 190-00544-01. NEW FIELD UPGRADES SHOULD USE G1000 SYSTEM SOFTWARE 0321.19, DEFINED IN TABLE A.

4. WEIGHT & BALANCE CHANGE FOR THIS STC IS NEGLIGIBLE.

STC DRAWING
DAS AR REVIEW REQUIRED

CONFIDENTIAL This drawing and the specifications contained herein are the property of Garmin Ltd. or its subsidiaries and may not be reproduced or used in whole or in part as the basis for manufacture or sale of products without written permission.			GARMIN® Garmin Ltd. or its subsidiaries c/o Garmin International, Inc. 1200 E. 151st Street Olathe, Kansas 66062 U.S.A.			
		DATE	TITLE GENERAL ARRANGMENT G1000, NO AUTOPILOT, DIAMOND DA40/40F			
TOLERANCE UNLESS NOTED OTHERWISE ENGLISH UNITS .XX ± .010 .XXX ± .005 HOLES ± .003 METRIC UNITS .X ± .25 .XX ± .13 HOLES ± .08 ANGLES +/- 0.5°	DRWN.	DCC	1/5/07	SIZE B	DWG. NO.	REV. 8
	CHKD.	RJC	1/5/07			
	RLS BY	DCC	1/5/07			
	PROJ. MGR.	SMP	1/8/07	SCALE NTS	DAS AR REVIEW REQUIRED	SHT. 1 OF 4

-4 STC Configuration Hardware/Software Definition					
Item #	Description	Compatible LRU Part Numbers	System Status Page Display (Configuration Mode)	Software Part Number	Software Version
-	G1000 / DA40 System Software Loader Card Image	-	-	006-B0321-19 ¹	0321.19 ²
1	GDU 1040 PFD	011-00972-00 OR 011-00972-03	PFD1	006-B0319-71	9.01
			PFD1 FPGA	006-C0036-04	1.04
2	GDU 1040 MFD	011-01080-00 OR 011-01078-01	MFD1	006-B0319-71	9.01
			MFD1 FPGA	006-C0036-04	1.04
3	GIA 63 #1 Integrated Avionics Unit	011-00781-00 OR 011-00781-01	GIA1	006-B0190-47	5.60
			GPS1	006-B0093-XX	3.03
			GIA1 AUDIO	006-D0425-05	2.05
4	GIA 63 #2 Integrated Avionics Unit		GIA2	006-B0190-47	5.60
			GPS2	006-B0093-XX	3.03
			GIA2 AUDIO	006-D0425-05	2.05
5	GMA 1347 Audio Panel	011-00809-00	GMA1	006-B0203-33	3.03
6	GRS 77 AHRS	011-0868-00 OR 011-00868-10	GRS1	006-B0223-09	2.11
			GRS1 FPGA	006-C0049-00	2.00
7	GMU 44 Magnetometer	011-00870-00	GMU1	006-B0224-00	2.01
			GMU1 FPGA	006-C0048-00	2.00
8	GDC 74A Air Data Computer	011-00882-00 OR 011-00882-10	GDC1	006-B0261-12	3.02
			GDC1 FPGA	006-C0055-00	1.05
9	GEA 71 Engine/Airframe Unit	011-00831-00	GEA1	006-B0193-05	2.07
10	GTX 33 Mode S Transponder	011-00779-00 OR 011-00779-10	GTX1	006-B0172-01	4.06
11	GDL 69 Data Link	Ref Diamond OAM 40-213/a or later revision.	GDL69	006-B0317-14	3.20.00
15	Diamond DA40 Aircraft Configuration Index ³	n/a	n/a	006-D0201-21 ³	2.19 ³

1. G1000 / DA40 Software Image controls all software and configuration files for this STC Configuration. The G1000 / DA40 Software Image file may be electronically sourced through Garmin or Diamond Aircraft to facilitate building a software SD Card. If desired, installer may purchase the G1000 / DA40 Software Image as a higher-level assembly on a Garmin manufactured loader card, P/N 010-00369-16.

2. G1000 System Software Version may be verified on the MFD Power-up or AUX-SYSTEM STATUS pages.

3. G1000 / DA40 Aircraft Configuration file part numbers and versions not directly verifiable. The successful completion of the PICP 190-00544-02, or Field Update Instructions, 190-00544-03 is sufficient evidence and verification of correct configuration file installation.

TABLE A – SOFTWARE & EQUIPMENT LIST (SW 0321.19)

ITEM	QTY	P/N	Installation Requirement
Terrain/Obstacle/Safe Taxi Database Card	2	010-00330-43	REQUIRED - For all new installations.
			OPTIONAL - For field upgrades of existing G1000 installations, aircraft owner may elect to retain the existing database cards, P/N 010-00330-41 or 010-00330-42. NOTE: Existing 010-00330-41 cards do not have the capacity to store the Garmin SafeTaxi, FliteChart or Jeppesen ChartView databases. If these features are desired, the 010-00330-42 or 010-00330-43 cards must be used. NOTE: Existing 010-00330-42 cards do not have the higher resolution Terrain databases required by Garmin Synthetic Vision & Pathways.
Chartview Unlock Card	1	010-00330-53	OPTIONAL - Required to activate ChartView option.
TAWS Unlock Card	1	010-00330-51	OPTIONAL - Required to activate TAWS option.
GDU 104X Boot Block Update Card	1	010-00330-02 (006-B0874-00) ¹	REQUIRED - Only if determined necessary to update GDU 104X boot block per PICP or Field Update procedures.
GIA 63 Boot Block Update Card	1	010-00533-00 (006-B0538-00) ¹	REQUIRED - Only if determined necessary to update GIA 63 boot block per PICP or Field Update procedures.

1. The Boot Block update for the GDU 104X or GIA 63 may be electronically sourced via the listed 006- P/N, through Garmin or Diamond Aircraft to facilitate building a boot block software SD Card. If desired, installer may purchase the Boot Block cards as a higher-level assembly produced by Garmin, defined per the 010- P/Ns shown above.

TABLE B – MISC. DATA CARDS

GARMIN® Garmin Ltd. or its subsidiaries
c/o Garmin International, Inc.
1200 E. 151st Street
Olathe, Kansas 66062 U.S.A.

SIZE B	DWG. NO. 005-00400-16	REV. 8
SCALE NTS	DAS AR REVIEW REQUIRED	SHT. 2 OF 4

-4 STC Configuration Hardware/Software Definition					
Item #	Description	Compatible LRU Part Numbers	System Status Page Display (Configuration Mode)	Software Part Number	Software Version
-	G1000 / DA40 System Software Loader Card Image	-	-	006-B0321-17 ¹	0321.17 ²
1	GDU 1040 PFD	011-00972-00 OR 011-00972-03	PFD1	006-B0319-6A	8.20
			PFD1 FPGA	006-C0036-04	1.04
2	GDU 1040 MFD		MFD1	006-B0319-6A	8.20
			MFD1 FPGA	006-C0036-04	1.04
3	GIA 63 #1 Integrated Avionics Unit	011-00781-00 OR 011-00781-01	GIA1	006-B0190-46	5.51
			GPS1	006-B0093-xx	3.03
			GIA1 AUDIO	006-D0425-03	2.03
4	GIA 63 #2 Integrated Avionics Unit		GIA2	006-B0190-46	5.51
			GPS2	006-B0093-xx	3.03
			GIA2 AUDIO	006-D0425-03	2.03
5	GMA 1347 Audio Panel	011-00809-00	GMA1	006-B0203-33	3.03
6	GRS 77 AHRS	011-00868-00 OR 011-00868-10	GRS1	006-B0223-09	2.11
			GRS1 FPGA	006-C0049-00	2.00
7	GMU 44 Magnetometer	011-00870-00	GMU1	006-B0224-00	2.01
			GMU1 FPGA	006-C0048-00	2.00
8	GDC 74A Air Data Computer	011-00882-00 OR 011-00882-10	GDC1	006-B0261-12	3.02
			GDC1 FPGA	006-C0055-00	1.05
9	GEA 71 Engine/Airframe Unit	011-00831-00	GEA1	006-B0193-05	2.07
10	GTX 33 Mode S Transponder	011-00779-00 OR 011-00779-10	GTX1	006-B0172-01	4.06
11	GDL 69 Data Link	Ref Diamond OAM 40-213/a or later revision.	GDL69	006-B0317-14	3.20
12	Diamond DA40 Aircraft Configuration Index ³	n/a	n/a	006-D0201-19 ³	2.17 ³

1. G1000 / DA40 Software Image controls all software and configuration files for this STC Configuration. The G1000 / DA40 Software Image file may be electronically sourced through Garmin or Diamond Aircraft to facilitate building a software SD Card. If desired, installer may purchase the G1000 / DA40 Software Image as a higher-level assembly on a Garmin manufactured loader card, P/N 010-00369-14.

2. G1000 System Software Version may be verified on the MFD Power-up or AUX-SYSTEM STATUS pages.

3. G1000 / DA40 Aircraft Configuration file part numbers and versions not directly verifiable. The successful completion of the PICP 190-00544-02, or Field Update Instructions, 190-00544-03 is sufficient evidence and verification of correct configuration file installation.

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TABLE C – SOFTWARE & EQUIPMENT LIST (SW 0321.17)

-4 STC Configuration Software/Hardware Definition					
010-00369-13 - G1000 in Diamond DA 40 Software Card					
Loader Card Contains:		G1000 Software Bundle (See Below For Breakdown)		006-B0321-15	0369.13
		Diamond DA40 Configuration Index		006-D0201-17	2.15
006-B0321-15 - G1000 System Software Version 0369.13					
Item #	Description	Compatible LRU Part Numbers	System Status Page Display (Configuration Mode)	Software Part Number	Software Version
1	GDU 1040 PFD	011-00972-00 OR 011-00972-03	PFD1	006-B0319-62	8.02
			PFD1 FPGA	006-C0036-03	1.03
2	GDU 1040 MFD		MFD1	006-B0319-62	8.02
			MFD1 FPGA	006-C0036-03	1.03
3	GIA 63 #1 Integrated Avionics Unit	011-00781-00 OR 011-00781-01	GIA1	006-B0190-42	5.31
			GPS1	006-B0093-xx	3.03
			GIA1 AUDIO	006-D0425-02	2.02
4	GIA 63 #2 Integrated Avionics Unit		GIA2	006-B0190-42	5.31
			GPS2	006-B0093-xx	3.03
			GIA2 AUDIO	006-D0425-02	2.02
5	GMA 1347 Audio Panel	011-00809-00	GMA1	006-B0203-33	3.03
6	GRS 77 AHRS	011-00868-10	GRS1	006-B0223-08	2.10
			GRS1 FPGA	006-C0049-00	2.00
7	GMU 44 Magnetometer	011-00870-00	GMU1	006-B0224-00	2.01
			GMU FPGA	006-C0048-00	2.00
8	GDC 74A Air Data Computer	011-00882-00	GDC1	006-B0261-03	2.05
			GDC1 FPGA	006-C0055-00	1.05
9	GEA 71 Engine/Airframe Unit	011-00831-00	GEA1	006-B0193-05	2.07
10	GTX 33 Mode S Transponder	011-00779-00 OR 011-00779-10	GTX1	006-B0172-XX	4.06
11	GDL 69 Data Link	Ref Diamond OAM 40-213/a or later revision.	GDL69	006-B0317-13	3.10

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TABLE D – SOFTWARE & EQUIPMENT LIST
(SW 0369.13)

GARMIN®

Garmin Ltd. or its subsidiaries
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1200 E. 151st Street
Olathe, Kansas 66062 U.S.A.

SIZE
B

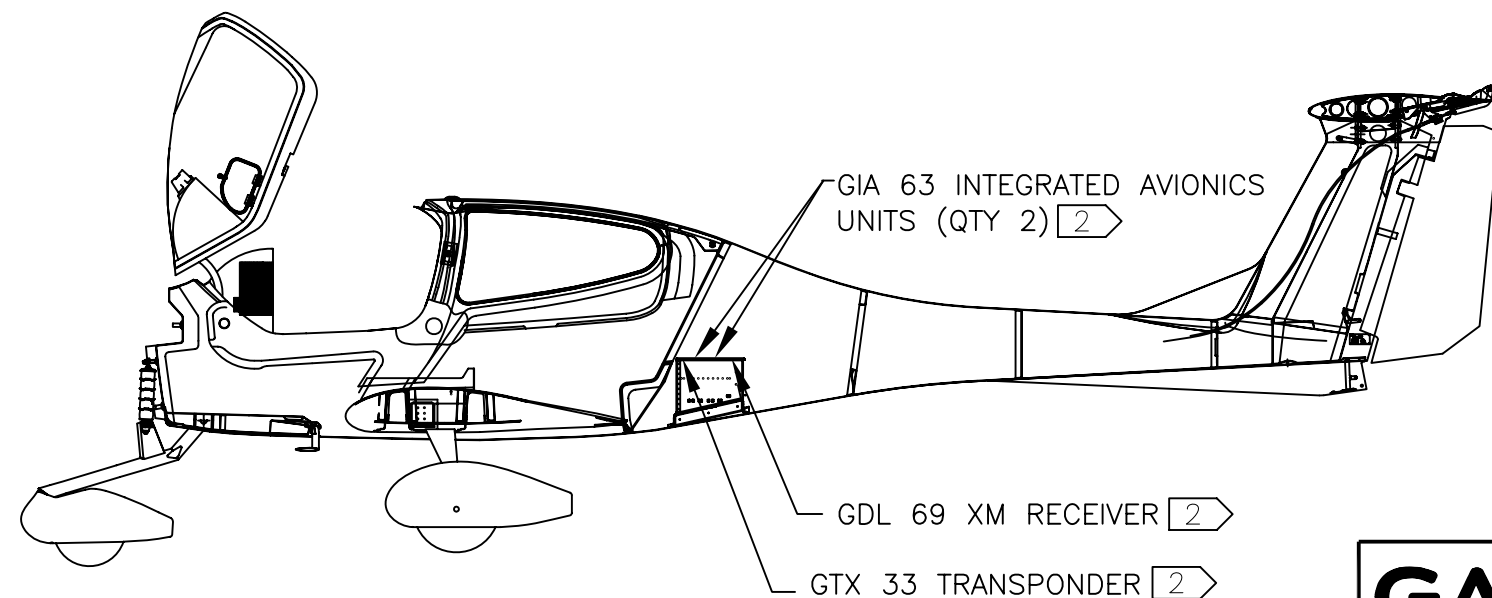
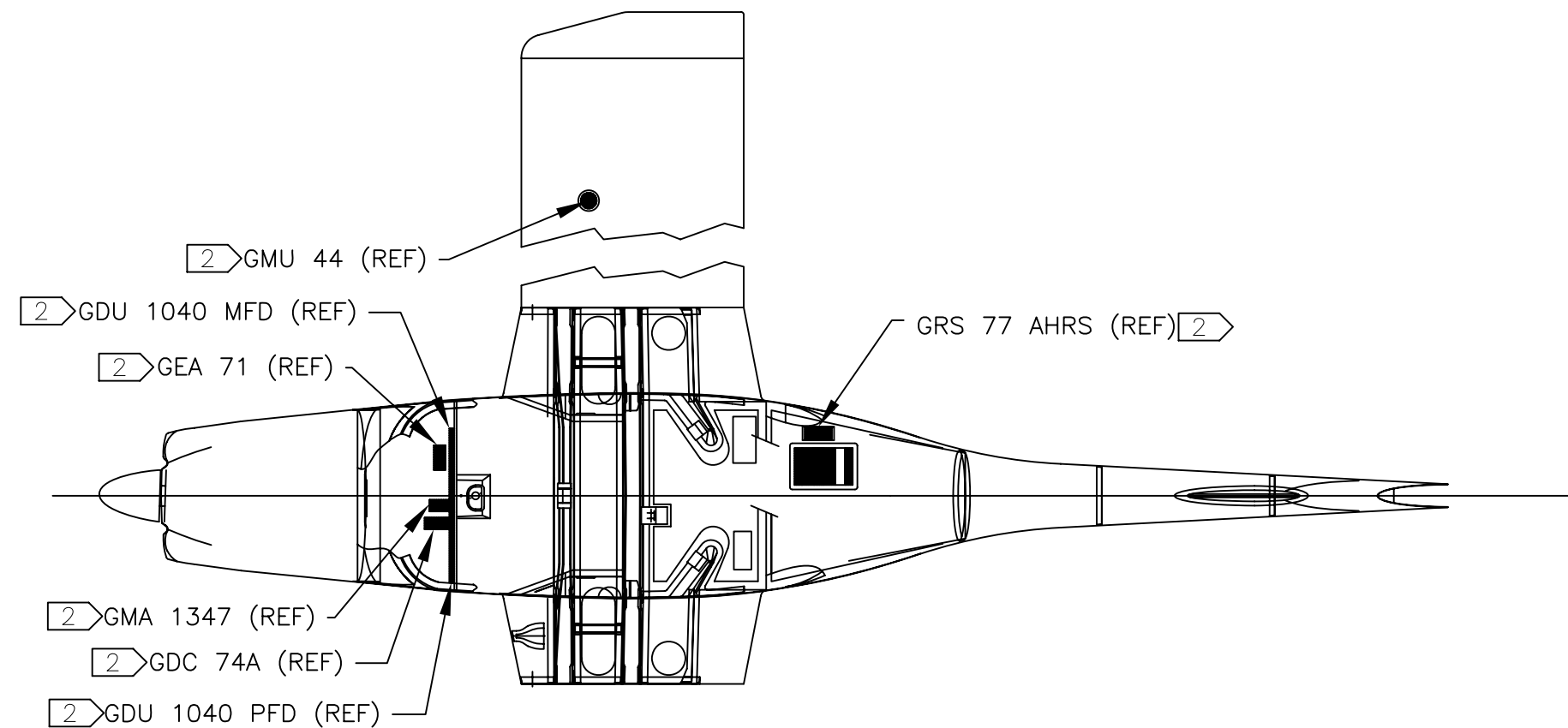
DWG. NO. 005-00400-16

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SHT. 3 OF 4



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SIZE B		DWG. NO. 005-00400-16	REV. 8
SCALE NTS	DAS AR REVIEW REQUIRED	SHT. 4 OF 4	