

SERVICE INFORMATION No. SI 40-091

NOTE: SI's are used only:
1) To distribute information from DAI to our customers.
2) To distribute applicable information/documents from our suppliers to our customers with additional information.
Typically there is no revision service for SI's. Each new information or change of that will be sent along with a new SI.

I. TECHNICAL DETAILS

1.1 Airplanes affected:

All DA 40 aircraft equipped with GARMIN Integrated Flight Deck systems with GDU software v9.00 to v9.03 and SVT (Synthetic Vision Technology) installed, see also Section 2.1.

All DA 40 F aircraft equipped with GARMIN Integrated Flight Deck systems with GDU software v9.00 to v9.03 and SVT (Synthetic Vision Technology) installed, see also Section 2.1.

1.2 Subject:

GARMIN: Service Advisory No. 0829 Rev. A
ATA-Code: 34-00

1.3 Reason:

GARMIN has discovered an issue that during approach at some specified airports, the SVT runway will appear higher or lower than the actual runway.

1.4 Information:

For detailed technical information see GARMIN Service Advisory No. 0829 Rev. A.

II. OTHERS

2.1 STC Information:

The GARMIN G1000 system and its associated systems, components, and software are installed in the DA 40 and DA 40 F airplanes under one of the following known GARMIN STC's:

- FAA STC No.:
 - SA01254WI-D (G1000 System)
 - SA01444WI-D (G1000 System and GFC 700 A/P System with optional WAAS installation)
 - SA01480WI-D (Synthetic Vision Technology, SVT);

- EASA STC No.:
 - EASA.IM.A.S.01023 (G1000 System).

Additionally to the above mentioned STC's further GARMIN STC's may be approved.

The applicability of the attached GARMIN publication must be checked. For this purpose refer to the related airplane documentation, contact your responsible GARMIN Service Centre or your local authority.

2.2 Miscellaneous:

The GARMIN Service Advisory No. 0829 Rev. A is attached to this SI.

In case of any doubt contact GARMIN.



SERVICE ADVISORY

NO.: 0829 Revision A

TO: Owner/Operators of Garmin Integrated Flight Deck Systems with Synthetic Vision Technology

DATE: 5 September 2008

SUBJECT: During approach at some specified airports, the SVT runway will appear higher or lower than the actual runway.

AFFECTED PRODUCTS

All Garmin Integrated Flight Deck systems with GDU Software v9.00 to v9.03 and Synthetic Vision Technology (SVT) installed are affected.

ISSUE

During an approach to an airport where field elevation is significantly different than the runway elevation, the SVT runway on the PFD will be depicted higher or lower than the actual runway.

DESCRIPTION

SVT runways are depicted on the PFD at field elevation. Some runways (listed in Table 1) differ from their associated field elevations by more than 100 feet. When making an approach at one of these airports, the runway on the PFD will be depicted higher or lower than the actual runway. The magnitude of the depiction discrepancy varies according to the distance to the runway (becomes more apparent as the aircraft moves closer to the airport) and the total difference between field elevation and the runway elevation.

NOTE

SVT is not intended to be relied upon exclusively for aircraft control, navigation, obstacle avoidance, terrain avoidance, or to avoid other aircraft. Navigation must not be predicated solely upon the use of TAWS terrain or obstacle data displayed by the SVS.

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RESOLUTION

There are 135 runways worldwide with elevations that differ by more than 100 feet from their respective field elevations. These runways and associated airport information are listed in Table 1.

Do not use the SVT runway depiction or FPM (flight path marker) to orient the aircraft to the runway (on approach) when less than 1 nautical mile from the runways listed in Table 1.

The SVT runway display operation on the PFD will be improved in GDU Software v9.04 and later versions.

Table 1 – Airports with Runway & Field difference of >100 feet (by State then Country)

Airport Name	APT ID	Rwy ID	City	State	Country
CAPE NEWENHAM LRRS	PAEH	RW14	CAPE NEWENHAM	AK	USA
SPARREVOHN LRRS	PASV	RW34	SPARREVOHN	AK	USA
SUMMIT	UMM	RW03	SUMMIT	AK	USA
INDIAN MOUNTAIN LRRS	PAIM	RW24	UTOPIA CREEK	AK	USA
SIERRA VISTA MUN LIBBY AAF	KFHU	RW21	FT HUACHUCA	AZ	USA
SIERRA VISTA MUN LIBBY AAF	KFHU	RW26	FT HUACHUCA	AZ	USA
SIERRA VISTA MUN LIBBY AAF	KFHU	RW12	FT HUACHUCA	AZ	USA
SIERRA VISTA MUN LIBBY AAF	KFHU	RW30	FT HUACHUCA	AZ	USA
NOGALES INTL	KOLS	RW03	NOGALES	AZ	USA
LOVE	KPRC	RW21R	PRESCOTT	AZ	USA
TAYLOR MUN	KTYL	RW21	TAYLOR	AZ	USA
DAVIS MONTHAN AFB	KDMA	RW12	TUCSON	AZ	USA
APPLE VALLEY	KAPV	RW08	APPLE VALLEY	CA	USA
VANDENBERG AFB	KVBG	RW12	LOMPOC	CA	USA
MOJAVE	KMHV	RW30	MOJAVE	CA	USA
MONTEREY PENINSULA	KMRY	RW10R	MONTEREY	CA	USA
NEEDLES	KEED	RW20	NEEDLES	CA	USA
REDLANDS MUN	KREI	RW08	REDLANDS	CA	USA
ASPEN PITKIN CO SARDY	KASE	RW15	ASPEN	CO	USA
CITY OF COLORADO SPRINGS MUN	KCOS	RW35L	COLORADO SPRINGS	CO	USA
DENVER INTL	KDEN	RW26	DENVER	CO	USA
DENVER INTL	KDEN	RW16R	DENVER	CO	USA
ROCKY MOUNTAIN METROPOLITAN	KBJC	RW29R	DENVER	CO	USA
DENVER INTL	KDEN	RW34L	DENVER	CO	USA
DENVER INTL	KDEN	RW17L	DENVER	CO	USA
ALEXANDER	KANK	RW24	SALIDA	CO	USA
BILLINGS LOGAN INTL	KBIL	RW28R	BILLINGS	MT	USA
BILLINGS LOGAN INTL	KBIL	RW25	BILLINGS	MT	USA
SOCORRO MUN	KONM	RW33	SOCORRO	NM	USA

Airport Name	APT ID	Rwy ID	City	State	Country
MC CARRAN INTL	KLAS	RW25R	LAS VEGAS	NV	USA
MC CARRAN INTL	KLAS	RW25L	LAS VEGAS	NV	USA
MC CARRAN INTL	KLAS	RW19L	LAS VEGAS	NV	USA
QUAHADI RANCH	17XS	RW01	DUBLIN	TX	USA
CARBON COUNTY REGIONAL BUCK DA	KPUC	RW36	PRICE	UT	USA
CARBON COUNTY REGIONAL BUCK DA	KPUC	RW32	PRICE	UT	USA
FALWELL	W24	RW28	LYNCHBURG	VA	USA
SHIVELY	KSAA	RW23	SARATOGA	WY	USA
RED REFLET RANCH	WY00	RW10	TEN SLEEP	WY	USA
HOT SPRINGS CO MUN	KTHP	RW19	THERMOPOLIS	WY	USA
MELBOURNE INTL	YMLL	RW34	MELBOURNE	VI	AUS
CHRISTMAS I	YPXM	RW36	CHRISTMAS I	WA	AUS
SCHLENKER	CFZ3	RW36	MEDICINE HAT	AB	CAN
SCHLENKER	CFZ3	RW25	MEDICINE HAT	AB	CAN
SCHLENKER	CFZ3	RW18	MEDICINE HAT	AB	CAN
SCHLENKER	CFZ3	RW07	MEDICINE HAT	AB	CAN
TWO HILLS	CEL6	RW12	TWO HILLS	AB	CAN
TWO HILLS	CEL6	RW30	TWO HILLS	AB	CAN
CAMP BASTION	OAZI	RW01L	CAMP BASTION		AFG
CAMP BASTION	OAZI	RW01R	CAMP BASTION		AFG
CAMP BASTION	OAZI	RW19L	CAMP BASTION		AFG
CAMP BASTION	OAZI	RW19R	CAMP BASTION		AFG
FUJAIRAH INTL	OMFJ	RW29	FUJAIRAH		ARE
GOBERNADOR HORACIO GUZMAN	SASJ	RW34	JUJUY		ARG
GEN DON MARTIN MIGUEL DE GUEM	SASA	RW24	SALTA		ARG
SHAIKH ISA	OBBS	RW33	BAHRAIN		BHR
EL ALTO INTL	SLLP	RW10	LA PAZ		BOL
NICOLAS ROJAS	SLPO	RW24	POTOSI		BOL
CERRO MORENO INTL	SCFA	RW01	ANTOFAGASTA		CHL
EL LOA	SCCF	RW10	CALAMA		CHL
DE LA INDEPENDENCIA	SCRG	RW03	RANCAGUA		CHL
DE LA INDEPENDENCIA	SCRG	RW21	RANCAGUA		CHL
BARRILES	SCBE	RW13	TOCOPILLA		CHL
BARRILES	SCBE	RW31	TOCOPILLA		CHL
GAROUA	FKKR	RW09	GAROUA		CMR
LA NUBIA	SKMZ	RW28	MANIZALES		COL
LEON BENTLEY	SKMU	RW02	MITU		COL
LEON BENTLEY	SKMU	RW20	MITU		COL
POLICKA	LKPA	RW15	POLICKA		CZE
CHACHOAN	SEAM	RW01	AMBATO		ECU
CAMILO PONCE ENRIQUEZ	SETM	RW06	LA TOMA		ECU
CAIRO INTL	HECA	RW05L	CAIRO		EGY
CAIRO INTL	HECA	RW23R	CAIRO		EGY
CAIRO INTL	HECA	RW16	CAIRO		EGY
BARAJAS	LEMD	RW33R	MADRID		ESP
DIRE DAWA INTL	HADR	RW33	DIRE DAWA		ETH
LALIBELLA	HALL	RW10	LALIBELLA		ETH

Airport Name	APT ID	Rwy ID	City	State	Country
ST CATHERINE	LFKC	RW18	CALVI		FRA
CORLIER	LFJD	RW12	CORLIER		FRA
COURCHEVEL	LFLJ	RW22	COURCHEVEL		FRA
L ALPE D HUEZ	LFHU	RW06	L ALPE D HUEZ		FRA
CHALANCON	LFJE	RW03	LA MOTTE		FRA
MEGEVE	LFHM	RW16	MEGEVE		FRA
BALESTAS	LFIP	RW10	PEYRESOURDE		FRA
ELEFSIS AB	LGEL	RW36	ELEFSIS		GRC
NARSARSUAQ	BGBW	RW07	NARSARSUAQ		GRL
PULA	LDPL	RW09	PULA		HRV
UDBINA	LDZU	RW13	UDBINA		HRV
KHOY	OITK	RW15	KHOY		IRN
MEHRABAD INTL	OIII	RW29L	TEHRAN		IRN
MEHRABAD INTL	OIII	RW29R	TEHRAN		IRN
BENSLIMANE	GMMB	RW14	BENSLIMANE		MAR
CHISINAU INTL	LUKK	RW26	CHISINAU		MDA
PLAN DE GUADALUPE INTL	MMIO	RW17	SALTILLO		MEX
ARVAIKHEER	ZMAH	RW32	ARVAIKHEER		MNG
ERDENET	ZMED	RW34	ERDENET		MNG
KHOVD	ZMKD	RW15	KHOVD		MNG
KHUJIRT	ZMHU	RW09	KHUJIRT		MNG
CHINGGIS KHAAN INTL	ZMUB	RW14	ULAANBAATAR		MNG
CHINGGIS KHAAN INTL	ZMUB	RW15	ULAANBAATAR		MNG
ULIASTAI	ZMUT	RW16	ULIASTAI		MNG
HOSEA KUTAKO INTL	FYWH	RW26	WINDHOEK		NAM
MINNA	DNMN	RW05	MINNA		NGA
PARACHINAR	OPPC	RW34	PARACHINAR		PAK
SAIDU SHARIF	OPSS	RW05	SAIDU SHARIF		PAK
TOCUMEN INTL	MPTO	RW03R	PANAMA CITY		PAN
RODRIGUEZ BALLON	SPQU	RW09	AREQUIPA		PER
PAMPA GRANDE	SPJB	RW05	CAJABAMBA		PER
PAMPA GRANDE	SPJB	RW23	CAJABAMBA		PER
TNTE FAP ALEJANDRO VELAZCO AST	SPZO	RW28	CUZCO		PER
LAS PALMAS	SPLP	RW01	LIMA		PER
RIOJA	SPJA	RW16	RIOJA		PER
RIOJA	SPJA	RW34	RIOJA		PER
COL CARLOS CIRIANI SANTA ROSA	SPTN	RW02	TACNA		PER
MENDI	AYMN	RW17	MENDI		PNG
MENDI	AYMN	RW35	MENDI		PNG
PORTO SANTO	LPPS	RW36	PORTO SANTO		PRT
TAIF	OETF	RW25	TAIF		SAU
KAMISHLY	OSKL	RW03	KAMISHLY		SYR
KULYAB	UTDK	RW01	KULYAB		TJK
KAHRAMANMARAS	LTCN	RW07	KAHRAMANMARAS		TUR
FERGANA	UTFF	RW18	FERGANA		UZB
NAMANGAN	UTFN	RW28	NAMANGAN		UZB
SIMON BOLIVAR INTL	SVMI	RW27	MAIQUETIA		VEN
ALBERTO CARNEVALLI	SVMD	RW06	MERIDA		VEN

Airport Name	APT ID	Rwy ID	City	State	Country
MAYOR BUENAVENTURA VIVAS INTL	SVSO	RW29	SANTO DOMINGO		VEN
DR ANTONIO NICOLAS BRICENO	SVVL	RW21	VALERA		VEN
SOCOTRA INTL	OYSQ	RW21	MOORI		YEM
TAIZ INTL	OYTZ	RW01	TAIZ		YEM
LANSERIA INTL	FALA	RW24R	LANSERIA		ZAF
LANSERIA INTL	FALA	RW24L	LANSERIA		ZAF
MARBLE HALL	FAMI	RW04	MARBLE HALL		ZAF
MARBLE HALL	FAMI	RW22	MARBLE HALL		ZAF
PIETERSBURG	FAPI	RW08	PIETERSBURG		ZAF
TZANEEN	FATZ	RW24	TZANEEN		ZAF
HARARE INTL	FVHA	RW05	HARARE		ZWE