



# Service Information Letter

<b>SIL Number:</b>	<b>606-00083-003</b>		
<b>To:</b>	<b>Owners/Operators of Avidyne Release 9 equipped aircraft.</b>		
<b>Subject:</b>	<b>Incorrect VSR Indications on Instrument Approach Missed Approach Procedures with Negative Altitude Constraints</b>		
<b>Purpose:</b>	<b>This Service Information Letter (SIL) advises owners and operators of Avidyne Entegra Release 9 that the vertical speed required (VSR) bug will indicate incorrectly on the VSI during an Instrument Approach when the altitude on the missed approach point is below sea level.</b>		
<b>Revision:</b>	00	<b>Date:</b>	10/28/09

## Problem Description

This Service Information Letter (SIL) advises owners and operators of Avidyne Entegra Release 9 that the IFD will incorrectly indicate Vertical Speed Required (VSR) on certain instrument approaches..

Legs with negative crossing altitudes (i.e. below sea level) occur only on the last leg of final approach to a runway threshold that is significantly below sea level. When that leg is active, the VSR green diamond displayed on the VSI will be displayed incorrectly at the upper limit (indicating a recommended climb).

There are only a small number of legs where the runway threshold is significantly enough below sea level to cause a negative crossing altitude. Those airports and approaches are as follows:

<b>Airport Identifier (City, State/Country)</b>	<b>Approaches</b>
UATG (Atyrau, Kazakhstan)	ILS 14, ILS 32
URWA (Astrakhan, Russia)	ILS 9, ILS 27
KBWC (Brawley, CA)	RNAV 26
KCLR (Calipatria, CA)	RNAV 8
KTRM (Palm Springs, CA)	VORDME 30, RNAV 30, RNAV 35



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**Note:** The list of Instrument Approaches above is based on Jeppesen NavData that was current as of the date of this letter (Cycle 0910) and may not be complete for future Jeppesen NavData cycles.

## Solution

The Vertical Speed Required (VSR) on the IFD Vertical Speed Indicator (VSI) is advisory information only. The Avidyne Entegra Release 9 pilot should refer to the current updated navigation database subscription provider to verify prior to any flight with an instrument approach that has a negative altitude (below sea level) at the missed approach point (MAP). Avidyne Entegra Release 9 pilots who intend to fly an instrument approach that has a negative altitude at the MAP should disregard the green VSR diamond on the VSI while that leg is active.

## Effectivity

<b>Description</b>	ACD215 FMS	IFD5000
<b>Avidyne Part Number</b>	700-00150-()	700-00083-()
<b>Avidyne Software Number</b>	R9.0, R9.01, R9.0.2	R9.0, R9.0.1, R9.0.2



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### **Accomplishment Instructions:**

Contact Avidyne when future Avidyne Entegra Release 9 software upgrades are available to correct this issue.

### **Warranty Information:**

Not Applicable.

### **Contact Information:**

Any customer who experiences the symptoms described above can contact Avidyne Entegra Release 9 Hotline.

**Avidyne Entegra Release 9 Hotline: 1-877-MyAVI9 (1-877-692-8479)**