

Upgrading to AF-6600/AF-5000 Version 16.10.36 Software (High Speed ARINC and Dual COM Radio Support)

The new Version 16 software has several improvements and changes that make the installation more complicated when upgrading:

- You will need to change the ARINC-429 OUT speed to HIGH SPEED (Only If you have an AFS ACM or Dynon SV-ARINC-429 module) in any attached GPS Navigator (GTN, IFD, GNS, GPS175) before flying with this software. The ARINC IN speed will stay set to LOW.
 If you are using our old AF-ARINC module leave the Navigator ARINC out speed set to LOW
- You will need to reconfigure the EFIS COM radio settings to support the new EFIS Dual COM radio tuning. You should configure the COM1 and COM2 radio settings to match how the radios are wired to your Audio Panel.

Installation Procedure

1. If you have a Dynon SV-COM Radio record your current Squelch, Sidetone and Mic Gain settings. From the SET>CAL>COM Radio Menu

5. INSTRUMENT OFF/ON	ON
6. Radio Type	SV-COM-PANEL
7. Frequency Spacing	25Khz
8. Squeich Level (%)	75
9. Sidetone Level (%)	25
10. Mic Gain (%)	50
11. SV-COM-PANEL Serial	Number 113

Squelch Level	_
Sidetone Level	_
Mic Gain	

- 2. Download the new EFIS software onto your existing EFIS USB memory stick.
- 3. Install the new Software on all EFIS screens in the aircraft.
- 4. Update the SV-Network from the Pilot EFIS (PFD)
- SET > CAL > 2. Advanced SV Network menu, press **UPDT** button
- 5. Power down and restart the system when instructed.
- 6. Reconfigure any RS-232 serial port that is wired to a COM radio.

If you have an Avidyne IFD radio connected to our Advanced Control Module the PFD EFIS serial port #3 is wired to the IFD serial port #3. This connection can be used to supply ADS-b data to the Avidyne or used to support EFIS COM radio tuning on the IFD.

For EFIS IFD Radio tuning configure the PFD EFIS serial port #3 to IFD COM

COM/AUDIO Opt	ons	Configure Admin Settin	ngs Seria	l Port 3
IFD COM	Avidyne IFD440, IFD540, IFD550	1. Function Select	GPS	
GTN COM	Garmin GTN-650, GTN-750		TRANSPONDER ADS-B COM/AUDIO	
RIG TY91 COM	Dynon Remote Trig Radio			IFD COM GTN COM
TR/GNC-2xx	GTR, GNC			TRIG TY91 COM GTR/GNC-2xx PMA450EX
MA450EX	PS Engineering PMA450EX Audio Panel			PDA360EX SL-30/40
A360EX	PS Engineering PMA360EX Audio Panel			VAL COM 2KR ATS COM
0/SL40	Garmin SL30 or SL40		NAV/VOR ELECTRICAL	PAC15EX
COM2KR	VAL Radio		AHRS	
COM	ATS COM		FADEC/EMS IN FADEC/EMS OUT	
C15EX	PS Engineering PAC15 Audio Panel		DYNON SERIAL OUT MISC NONE	

- 7. Configure the COM Radio Menu on the PFD for COM 1 and COM 2
 - If you have a Dynon SV-COM Radio enter the settings for Squelch, Sidetone and Mic Gain.
 - If you have an IFD COM Radio connected to our Advanced Control Module configure COM 1 to IFD COM and the Wired to setting to SERIAL PORT #3.

	ON COM SKhz RT #3	
2. Radie Type IFC 3. Frequency Spacing 2 4. Wired To SERIAL PO COM 2 Settings: 5. INSTRUMENT OFF/ON	COM SKhz RT #3	
3. Frequency Spacing 2 4. Wired To SERIAL PO COM 2 Settings: 5. INSTRUMENT OFF/ON	5Kh2 RT #3	
4. Wired To SERIAL PO COM 2 Settings: 5. INSTRUMENT OFF/ON	RT #3	
COM 2 Settings: 5. INSTRUMENT OFF/ON		
5. INSTRUMENT OFF/ON	ON	
	ON	
6. Radio Type SV-COM-P		
	ANEL	
7. Frequency Spacing 2	5Khz	
8. Squeich Level (%)	75	
9. Sidetone Level (%)	25	
10. Mic Gain (%)	50	
11. SV-COM-PANEL Serial Number	113	



COM Radio

The EFIS can display and tune the primary and standby frequencies for up to two connected COM Radios. The following radios support remote frequency control: Dynon SV-COM, Trig TY91 Remote COM, Avidyne IFD, Garmin GTN-650xi/750xi, GTR-200, GTR-225, GNC-255, SL30, SL40, VAL 2KR. The Dynon SV-COM interfaces with the EFIS on the SV-NETWORK, the other COM radios will need to be connected to an EFIS RS-232 serial port.

Some of the setting options will change based on the selected radio type.

COM 1 SETTINGS

	Version 16.10	AF-6600 AF-5000 Series Install Manual	89
		anary Spacing 25kbs SAVE	
		СПР СОМ СПР СОМ СПР -2007/233 С 0407-233 С 0407-235 1 VAL CPL-20 4 - 50 ATS COM ATS COM ATS COM ATS COM ATS COM ATS COM CPL -2007/201 CPL -20	
	COM 1	And Calibratian COM Ballis Sessup & ADDAINCO D Sestingsi & ON	
	SV-COM-PANEL Serial Number	SV-COM Panel display serial number to control	
	Mic Gain (%)	Radio Mic Gain	
	Sidetone Level (%)	Radio Sidetone Setting	
	Squelch Level (%)	Radio Squelch Setting	
	• Wiled TO	AFS NETWORK if radio is wired to a Remote EFIS ser	
	Frequency SpacingWired To	North America 25khz, Europe 8.33khz Select the Serial Port # if radio is wired to this EFIS scr	000
	Radio Type	Select the Radio to tune as COM 2	
Γ	INSTRUMENT OFF/ON	Turns ON or OFF the EFIS COM Radio 2 display tab	
_	COM 2 SETTINGS	AFS NETWORK if radio is wired to a Remote EFIS ser	ial port.
	Wired To	Select the Serial Port # if radio is wired to this EFIS scr	reen
	 Frequency Spacing 	North America 25khz, Europe 8.33khz	
	Radio Type	Select the Radio to tune as COM 1	
	 INSTRUMENT OFF/ON 	Turns ON or OFF the EFIS COM Radio 1 display tab	

- Configure the COM Radio Menu on the MFD EFIS for COM 1 and COM 2.
 If you have an IFD COM Radio wired to PFD Serial Port #3 you should configure the COM 1 Wired To setting to AFS NETWORK
- 9. Change the IFD Serial Port 3 setting to vhfcntrl to enable COM radio tuning.
- **10.** Update the ARINC OUT Speed on the GPS Navigator using these settings:

Avidyne IFD



	10/16	02/13/2031 06:54:32z VOR / LOC / GS ARINC 429 Config
SQ/ID		RX TX Speed Low High Format Off VHF 429
A		SDI Common DME Mode Directed freq 1
Ę/		
		Update Logs Status Diag Config Item Select

Garmin GTN

		ARMIN C 429 Co Speed	nfiguration Data		0
	ARINC 429 Out 1	High	GAMA Format 2	. 🧟	но
	ARINC 429 Out 2	Low	Off		Đ
Back	SDI		Common	Down	

