

Upgrading to AF-6600/AF-5000 Version 16.10.31 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 in any attached GPS Navigator** (**GTN, IFD, GNS, GPS175**) before flying with this software. The ARINC IN speed will stay 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	Sc
6. Radio Type	SV-COM-PANEL	
7. Frequency Spacing	25Khz	Si
8. Squeich Level (%)	75	
9. Sidetone Level (%)	25	IV
10. Mic Gain (%)	50	
11. SV-COM-PANEL Serial	Number 113	

Squelch Level _	
Sidetone Level	
Mic Gain	
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/AODIO OP	lions	Configure Admin Settin	igs Seria	al Port 3
IFD COM	Avidyne IFD440, IFD540, IFD550	1. Function Select	GPS	
			TRANSPONDER	
GTN COM	Garmin GTN-650, GTN-750		COM/AUDIO	
TDIC TV01 COM	Duran Derecto Tria Derlia			IFD COM
TRIG TYPECOM	Dynon Remote Trig Radio			GTN COM
CTD/CNC 200	OTD ONO			CTR/CNC-288
GTR/GNC-2XX	GTR, GNC			PMA450EX
	DC Engineering DMA4E0EV Audio Denel			PDA360EX
PINA430EA	PS Engineering PMA450EX Audio Parier			SL-30/40
DMA260EY	PS Engineering PMA260EX Audio Papel			VAL COM 2KR
PINASOUEA	PS Engineering PWA300EX Audio Parlei			ATS COM
SI 30/SI 40	Garmin SI 30 or SI 40		NAV/VOR	PACISEX
0200/0240	Garmin GESC GI GE40		ELECTRICAL	
VAL COM2KR	VAL Radio		AHRS	
	The riddio		TRAFFIC	
ATS COM	ATS COM		FADEC/EMS IN	
			YNON SERIAL OUT	
PAC15EX	PS Engineering PAC15 Audio Panel		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.

Instrument Calibration	COM	1 Radio Setup	BACK
COM 1 Settings:			birten
1. INSTRUMENT OFF/ON	ON		
2. Radio Type	IFD COM		
3. Frequency Spacing	25Khz		
4. Wired To	SERIAL PORT #3		
COM 2 Settings:			
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 Seria	l Number 113)	
			SAVE



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 DS 020 control and RS-232 serial port.

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

COM 1 SETTINGS

INSTRUMENT OFF/ON	Turns ON or OFF the EFIS COM Radio 1 display tab

- Radio Type Select the Radio to tune as COM 1
- Frequency Spacing North America 25khz, Europe 8.33khz • Wired To
 - Select the Serial Port # if radio is wired to this EEIS screen
- AFS NETWORK if radio is wired to a Remote EFIS serial port. COM 2 SETTINGS
- INSTRUMENT OFF/ON

Turns ON or OFF the EFIS COM Radio 2 display tab

Select the Serial Port # if radio is wired to this EFIS screen

- Radio Type Select the Radio to tune as COM 2
- Frequency Spacing North America 25khz, Europe 8.33khz
- Wired To
 - AFS NETWORK if radio is wired to a Remote EFIS serial port.
- Radio Squelch Setting • Squelch Level (%)
- Sidetone Level (%) Radio Sidetone Setting Radio Mic Gain
- Mic Gain (%)
- SV-COM-PANEL Serial Number SV-COM Panel display serial number to control



- 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

VOL	2/16	Mai	n ARINC 429 c	02/13/203	31 06:52:44z	CDI
USH SQ/ID	· · · ·			oning		PUSH 0
		Spe	ed Data			0
Y	ln -		EFIS/Aird	ata		
1 North	Ou	t1 Hig	h GAMA 42	Graphics w/int		
UN I.	Ou	t2 Lov	v on			PRO
	SD	l Cor	nmon		1	NRS
	VN	AV Ena	ble Labels			FRE
						ENT
		Jpdate I	Logs Status Di	ag (Config P	age 🕞 Select	CLR
CONTRACT			ALIDYNE			

Speed Low High
Format Off VHF 429
SDI Common
DME Mode Directed freq 1

Garmin GTN

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

