



Product Support Bulletin 1/16



DF11 Firmware Update



## Introduction

This bulletin is designed to give you step by step instructions on updating the firmware in your DF11 Speed Feedback Sign equipped with the Datalogging function. It is designed to address a potential internal clock error which may put the wrong date stamp onto any data you download. The sign will continue to detect and display approaching vehicle speeds, providing valuable road safety information to drivers without this update as it only affects the downloaded traffic data.

With a good broadband connection to download the new files and with the sign within Bluetooth range, we anticipate this update should take no longer than 15 minutes to complete and you may wish to do this in conjunction with a scheduled battery charging session.

This support document assumes that you are conversant with pairing your laptop with the sign; please see your user manual for full instructions on how to pair the devices if you are doing this for the first time.

# **Updating Your Firmware**

## STEP 1:

a) We recommend that you download the latest version of the Windows software you use for accessing the sign and its data using the link:

http://houston-radar.com/HoustonRadarStatsAnalyzerUpgrade.msi

(The Firmware update will work with all versions of the Stats Analyser if you don't wish to update this time)

b) Download the new firmware using the link below and if it doesn't download automatically into a Library folder such as Documents, save it to a convenient location your computer such as your Desktop:

http://www.houston-radar.com/firmware/ss300b02\_v156.frm

Once each file has downloaded double click the icon and follow the prompts to install it on your Laptop.

Please note, if your IT provider has blocked access to software downloads on your device, please contact your Administrator for advice on allowing the update to have access permissions.



## STEP 2:

Make sure that your sign is turned on and your laptop is connected to the device over the Bluetooth interface. Start the stats analyser and connect to the radar (File->Connect to Radar...) as usual.

Pouston Radar Stats Analyzer Pro	CONTRACTOR A DECISION A DECISION A	
<u>File</u> Data Edit <u>W</u> indow Help		
File Usta Edit Window Hep New/Open Stats Project Close Stats Project Database Location Print Preview Print Setup Remote Radar Connections Settings Exit	File       Data       Edit       Window       Help         New/Open Stats Project       Close Stats Project       Database Location         Database Location       Print Preview       Print Preview         Print       Connect To Radar       Setup Remote Radar Connections         Settings       Exit	

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Choose the COM port from the drop down menu that corresponds to the Bluetooth link with your sign and then click "Connect to Radar.

Advanced Connection Radar Setup Connection Connect To Badar On CONNECT To Badar On CONNECT To Disconnect COM13:Standard Serial over Bluetooth li Connect To Badar On Connect To Connect Connect To Connect Connect To Connect	🎸 Connect to Radar	
Connection Connect To Badar On: COM13:Standard Serial over Bluetooth li Connect To Radar Connect To Disconnect Co Disconnect To Disconnect Connect To Disc	Advanced	
Connection Connect To Badar On: COM13:Standard Serial over Bluetooth II Connect To Badar On: Connect To Badar One Connect To Badar One Connect To Badar One Disconnect Disconnect Disconnect Disconnect Disconnect Disconnect Connected Radar Info: Radar Software Ver. #: Radar Tag #: Radar Type/HW Ver: Stats Package: Serial ID: Radar Clock: Sync Radar Clock To Computer Erase Radar Data Read Traffic Stats From Radar Read Stats Data Info: Importing Into Project Dir: No Project Importing Into Open Project: No Project Importing Into Open Project: No Project Disconnected Via: Disconnected	Connection Radar Setup	
Sync Radar Clock To Computer         Erase Radar Data         Read Traffic Stats From Radar         Read Stats Data Info:         Importing Into Project Dir:         No Project         Importing Into Open Project:         No Project         Connected Via: Disconnected	Connect To Radar On: COM13:Standard Serial over Bluetooth li Connect To Radar Disconnect	Connected Radar Info: Connection Status: Not Connected Radar Software Ver. #: Radar Tag #: Radar Type/HW Ver: Stats Package: Serial ID: Radar Clock:
Read Traffic Stats From Radar         Read Stats Data Info:         Importing Into Project Dir:         No Project         Importing Into Open Project:         No Project         Connected Via: Disconnected	Sync Radar Clock To Computer Erase Radar Data	
Read Stats Data Info:         Importing Into Project Dir:         No Project         Importing Into Open Project:         No Project         No Project         Connected Via: Disconnected         Close	Read Traffic Stats From Radar	
Connected Via: Disconnected Close	Read Stats Data Info: Importing Into Project Dir: No Project Importing Into Open Project: No Project	
	Connected Via: Disconnected	Close



The Radar System Information popup box will appear.

Radar Syste	m Information	x
i	Radar System Information: REV=149 ID=000015ef2de3 OPT=1 TIME=Mon Jan 18 14:34:55 2 TYPE=SS300B02 MOD=4 BRD=5 CAP=0x133df STK=882 ENV=81 ERRNO=0	2010
		ок

Click on OK. Your PC or Laptop is now connected to your DF11.



Click OK again...

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# Uploading the Firmware Update to the Sign

Program the new radar firmware (ss300b02\_v156.frm) via the *Advanced->Firmware Upgrade* option. Firmware programming takes only about a minute.

🞸 Connect to Radar			
Advanced			mph
Firmware Upgrade			
Bootloader Upgrade Radar Configuration Connection Preferences Show ASCII Command Terminal Download Speed Test Run Advanced Diag Show Debug Tab	۲.	ected Radar Info: onnection Status: CC adar Software Ver. #: adar Tag #: adar Type/HW Ver: tats Package: erial ID: adar Clock:	DM13@57600,8,None 149 3555 SS300B2 Enabled 000015ef2de3 18/01/2016 14:57:12
Sync Radar Clock To Computer Erase Radar Data Read Traffic Stats From Radar Read Stats Data Info: Importing Into Project Dir: No Project Importing Into Open Project:	Rada - D	ar Output Data Transferred (kB):	0.5KB
No Project Connected Via: COM13		000	Close



Locate the folder where you have downloaded the Houston firmware **(ss300bo2\_v156.frm)** to and select it then click open.

🖍 Open		×
🔾 🗸 🖉 🕹 🕹 Libraries 🕨 Do	ocuments 🕨 Houston New Firmware	✓ Search Houston New Firmware
Organize 🔻 New folder		ii - 🔟 🔞
<ul> <li>★ Favorites</li> <li>■ Desktop</li> <li>Downloads</li> <li>% Recent Places</li> <li>Cibraries</li> <li>Documents</li> <li>Music</li> <li>Pictures</li> <li>Videos</li> </ul>	Documents library Houston New Firmware	Arrange by: Folder -
🔊 Computer	•	
File name:	ss300b02_v156.frm	Radar Upgrade Firmware Files (      Open      Cancel

The following box will appear, click **OK** to proceed or **Cancel** to end the upgrade.





The Following box will appear...

😽 Firmware Programm	ning Status	×
Firmware Upgrade Sta	atus	
Firmware File:	C:\Users\sh\Documents\Houston New Firmware\ss300b02_v156.frm	
Bootloader Version:	202	
Programming Status:	: [Flushing incoming queue]	
	Ok	

With the actions highlighted...

~	Firmware Programm	ing Status
	Firmware Upgrade Stat	US
	Firmware File:	C:\Users\sh\Documents\Houston New Firmware\ss300b02_v156.fm
	Bootloader Version:	202
	Programming Status:	Programmed pg 81
		Ok
		]



Once the firmware upgrade has been completed successfully the DF11 will disconnect and reboot automatically.

You are reconnecting over Bluetooth. Please be patient while This will take up to 15 seconds	I try to reconnect.
	ОК

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You will notice the Radar Clock is no longer in sync with the PC. This is normal, just click on the Sync Radar Clock to Computer button .

💦 Connect to Radar	
Advanced	mph
Connection Radar Setup	
Connect To Radar On: COM13:Standard Serial over Bluetooth li - Connect To Radar Disconnect	Connected Radar Info: Connection Status: COM13@57600,8,None Radar Software Ver. #: 156 Radar Tag #: 3555 Radar Type/HW Ver: SS300B2 Stats Package: Enabled Serial ID: 000015ef2de3 Radar Clock: 18/01/2010 15:08:49 Programming Status: [1]
Sync Radar Clock To Computer Erase Radar Data Read Traffic Stats From Radar	
Read Stats Data Info: Importing Into Project Dir: No Project Importing Into Open Project: No Project	Radar Output - Data Transferred (kB): 0.1KB
Connected Via: COM13	Close



The radar will now be set at the same date and time as your laptop.

🖍 Connect to Radar	
Advanced	mph
Connection Radar Setup	
Connect To Radar On: COM13:Standard Serial over Bluetooth li Connect To Radar Disconnect	Connected Radar Info: Connection Status: COM13@57600,8,None Radar Software Ver. #: 156 Radar Tag #: 3555 Radar Type/HW Ver: SS300B2 Stats Package: Enabled Serial ID: 000015ef2de3 Radar Clock: 18/01/2016 15:09:07 Programming Status: [1]
Sync Radar Clock To Computer Erase Radar Data Read Traffic Stats From Radar	)
Read Stats Data Info: Importing Into Project Dir: No Project Importing Into Open Project: No Project	Radar Output - Data Transferred (kB): 0.4KB
Connected Via: COM13	Close



# Error Message

If the following error message appears, the firmware upload has been unsuccessful; this can be due to a number of reasons and is easily remedied:

Firmware Upgrade Stat	US
Firmware File:	C:\Documents and Settings\et\Downloads\ss300b02_v156.fm
Bootloader Version:	LabelBootloaderVer
Programming Status:	[Trying to acquire bootloader]
	Ok
	Ok
	Ok Error in programming
	Ok Error in programming Wnable to acquire bootloader! Cannot continue



Simply disconnect the DF11 from your laptop by clicking the disconnect button as shown and then turning your sign off for about 15 seconds.

Connect to Radar		
Advanced		mph
onnection Radar Setup		
Connect To Radar On: COM13:Standard Serial over Bluetooth li Connect To Radar Disconnect	Connected Radar Info: Connection Status: CO Radar Software Ver. #: Radar Tag #: Radar Type/HW Ver: Stats Package: Serial ID: Radar Cype/HW	OM13@57600,8,None 156 3555 SS300B2 Enabled 000015ef2de3
	Radar Clock: Programming Status:	18/01/2016 15:09:07 [1]
Sync Radar Clock To Computer Erase Radar Data		
Read Traffic Stats From Radar		
Read Stats Data Info: Importing Into Project Dir: No Project	Radar Output - Data Transferred (kB):	0.4KB
Importing Into Open Project: No Project		

Turn on your sign and once it has powered up, click on 'Connect to Radar'. Then follow the firmware upload procedure once again.

Completion		

Once you have completed the update please disconnect your Bluetooth connection as shown above and carry on using the sign as beforel



# **Further Support**

If you have any difficulty in downloading or installing the programmes please contact Unipart Dorman using the details shown on the back page. Before calling, please check that you have access to both your sign and your laptop are powered up and linked over the Bluetooth connection.

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