

## ASK THE EXPERTS: Unified Collection Point Routes

QUESTION: If changes and additions are made to the FFT route, how do I get them to show up in the collection route?

As of Windrock MD 4.3, if you add new FFT points in the FFT Point Editor (Figure 1), you can add them to your collection route manually by clicking the checkbox for "Show unused FFT points" at the bottom of the Collection Point editor (Figure 2). Select the points to add in the list on the right side of the editor and click the arrow (Figure 3).

FFT Point Editor													23
FFT Points	Name	New Point			Averages	5	1			Mode	Line	ar +	-
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Gen Inboard Horiz Accel	Channels		1	J	Lines		200	· · ·	ļ	Syric	Free	erun	
Gen Inboard Vert Vel	RPM		0	CPM	Window T	Гуре	Han	nning 👻					
Gen Inboard Vert Accel					<b>_</b> .			-					
Gen Inboard Axial Accel					Fmin		0		CPM				
Gen Outboard Vert Vel					Fmax		468	8 🗸	CPM				
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Eng Mn Brg 1 Accel	Overall Li	imit	0.5000		Bucket W	/idth	18.3	311	CPM				
Eng Mn Brg 2 Vel		[						-					
Eng Mn Brg 2 Accel	Band Set	None	•		Waveforr	m Length	3.27	/	sec				
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Eng Mn Brg 4 Vel	Ch Cha	nnel Name	Sensor Tv	pe	Display		Se	ensitivity		Scale	Auto	Source	
Eng Mn Brg 4 Accel		1.4	Jan	. 🗖	, support					0.000			
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Figure 1 – Add new FFT points

Collection Points		1			
Power 10 Pressure Power 10 HF / Ultra Power 10 Raw / PCC Ultra Power 11 Pressure Power 11 HF / Ultra Power 12 Pressure Power 12 HF / Ultra Power 12 Raw / PCC Ultra Power 12 Raw / PCC Ultra Right Turbo Cold Horiz - Accel Right Turbo Cold Vert - Accel Right Turbo Cold Axial - Accel Right Turbo Cold Axial - Vel Hight Turbo Cold Axial - Vel - CHANGE TO VELOCITY PROBE Eng Frame Left Front Horiz Search		Name Iype EFT Point	Right Turbo Cold Horiz - Accel	¢	These FFT points have not been used in any collection point.
O Add New     C Add a Copy     O D       ↑ Move Up     ↓ Move Down     Other	elete •		OK     OK     Help     X     Cancel		Search

Figure 2 – Click checkbox for "Show unused FFT points"



Collection Points					
Power 10 Pressure	~	Name	New Point		These FFT points have not been used A
Power 10 HF / Ultra Power 10 Raw / PCC Ultra		Type	FFT/vibration data		Left Turbo Cold Horiz - Disp
ower 11 Pressure			,		Left Turbo Cold Vert - Disp
ower 11 HF / Ultra		FFT Point	New Point 👻	4	Left Turbo Cold Axial - Disp
ower 12 Pressure		-			Right Turbo Cold Horiz - Disp
ower 12 HF / Ultra					Right Turbo Cold Axial - Disp
ower 12 Raw / PCC Ultra					
tight Turbo Cold Horiz - Accel	_				
lew Point					
light Turbo Cold Horiz - Vel	_				
ight Turbo Cold Vert - Accel	=				
ight Turbo Cold Axial - Accel					
ight Turbo Cold Axial - Vel					
- CHANGE TO VELOCITY PROBE	-				
Search	P				
		1	Show unused FFT points		
O Add New   L Add a Copy   O	elete				
		_			
↑ Move Up ↓ Move Down Other	•		V OK 🕢 Help 🛛 💥 Cancel		Search

Figure 3 – New point has been moved into Collection Points

Once you have completed this step, simply save and transfer to your portable analyzer. This will add the new point and it is now ready to go (Figure 4).

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Power 10 HF / Ultra	?
Power 10 Raw / PCC Hitra	2
Power 11 Processo	;
Deserved 11 DE / Ultras	5
Power II Hr / Ultra	÷.
Power 11 Raw / PCC Ultra	1
Power 12 Pressure	?
Power 12 HF / Ultra	?
Power 12 Raw / PCC Ultra	?
Right Turbo Cold Horiz - Accel	?
New Point	?
Right Turbo Cold Horiz - Vel	?
Right Turbo Cold Vert - Accel	?
Right Turbo Cold Vert - Vel	?
Right Turbo Cold Axial - Accel	2
Right Turbo Cold Avial - Vol	2
CUANCE TO VELOCITY DROPE	
CHANGE TO VELOCITI PROBE	~
Eng Frame Left Front Horiz	£
Eng Frame Left Front Vert	
Eng Frame Left Mid Horiz	?

Figure 4 – New point displays in 6320 portable analyzer



On the portable analyzer, whenever choosing "Take new data," you can see the combined route (dynamic, panel, temperature, and FFT). If you go under "FFT take route," you will see only the FFT portion of that route.

To take data on any FFT point, whether or not it is part of your route, go under "FFT take route" and choose "Manual selection of points." The biggest advantage of unified routes is the flexibility of taking FFT data at the same time as crank-angle vibration data. You can simply integrate your FFT route, infrared, and manual panel points with the collection route (Figure 5). This allows you to minimize the amount of laps you need to make around your machine while taking data.



Figure 5 – An example of unified routes

In the next major software release of Windrock MD 4.4 (released later this year), the FFT Point Editor will automatically prompt a user and ask about new points added to routes. This will simplify the process of unified routes. Each time Windrock releases new software updates, please be sure to check the "What's New" section in your version of Windrock MD. Also, keep your software updated in order to take advantage of the continuous new features that we frequently add.

If you have additional questions about unified routes or would like more information about software or other topics, please email <u>sales@windrock.com</u>.