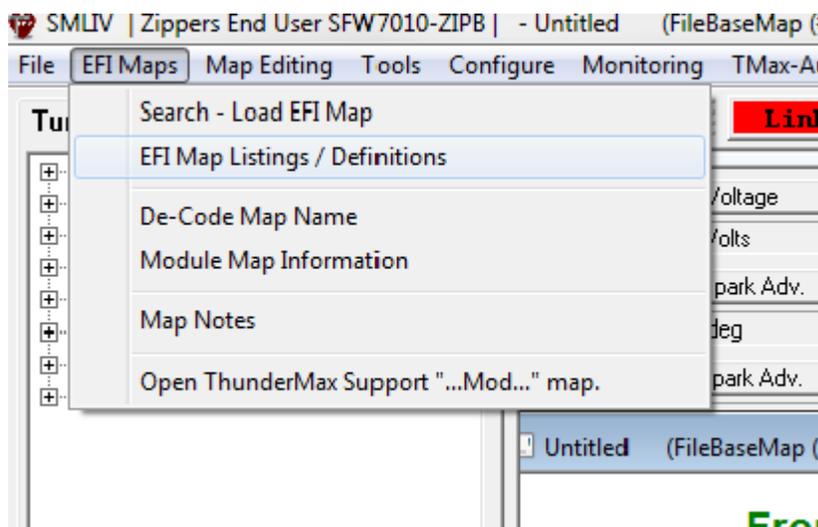


## Selecting and Loading a New Base Map from the TMax Software Data Base

### Choosing the Correct Base Map

1. Go to “EFI Maps” in the Main Tool Bar, then click “EFI Map Listings”.



*This screen appears slightly different in the TMax Tuner Software*



# HOW TO:



**A list of available Base Maps should appear.**

Base Map Definitions

Item	Manufacturer	EngineType	Family	Throttle	Exhaust
531	HarleyDavidson	80ci	EVO	'01-'05 50mm Zippers (stock 4.22 Inj)	True Dual Rinehart Full System
532	HarleyDavidson	80ci	EVO	'01-'05 50mm Zippers (stock 4.22 Inj)	Stock HD FL Head Pipe
533	HarleyDavidson	80ci	EVO	'01-'05 50mm Zippers (stock 4.22 Inj)	Stock HD FL Head Pipe
534	HarleyDavidson	80ci	EVO	'01-'05 50mm Zippers (stock 4.22 Inj)	2:1 Thunderheader FL (Long)
538	HarleyDavidson	80ci	EVO	'01-'05 50mm Zippers (stock 4.22 Inj)	2:1 D+D Fat Cat
586	HarleyDavidson	110ci	TwinCam A&B	Stock HD TC 06-07 all, '08-up FX (25° Inj)	2:1 D+D Fat Cat
590	HarleyDavidson	103ci	TwinCam A&B	Stock HD 01-05 (Stock 4.22 Inj)	Stock HD FL Head Pipe
591	HarleyDavidson	103ci	TwinCam A&B	'01-'05 50mm Zippers (stock 4.22 Inj)	Stock HD FL Head Pipe
592	HarleyDavidson	103ci	TwinCam A&B	'01-'05 50mm Zippers (stock 4.22 Inj)	Stock HD FL Head Pipe
593	HarleyDavidson	103ci	TwinCam A&B	'01-'05 50mm Zippers (stock 4.22 Inj)	Stock HD FL Head Pipe
594	HarleyDavidson	103ci	TwinCam A&B	Stock HD 01-05 (Stock 4.22 Inj)	True Dual Rinehart Full System
595	HarleyDavidson	103ci	TwinCam A&B	'01-'05 50mm Zippers (stock 4.22 Inj)	True Dual Rinehart Full System
596	HarleyDavidson	103ci	TwinCam A&B	Stock HD 01-05 (Stock 4.22 Inj)	2:1 D+D Fat Cat
597	HarleyDavidson	103ci	TwinCam A&B	'01-'05 50mm Zippers (stock 4.22 Inj)	2:1 D+D Fat Cat
598	HarleyDavidson	103ci	TwinCam A&B	'01-'05 50mm Zippers (stock 4.22 Inj)	2:1 Thunderheader FL (Long)
603	HarleyDavidson	103ci	TwinCam A&B	'01-'05 50mm Zippers (stock 4.22 Inj)	True Dual Rinehart Full System
604	HarleyDavidson	103ci	TwinCam A&B	'01-'05 50mm Zippers (stock 4.22 Inj)	2:1 D+D Fat Cat
605	HarleyDavidson	103ci	TwinCam A&B	'01-'05 50mm Zippers (stock 4.22 Inj)	2:1 D+D Fat Cat
607	HarleyDavidson	95ci	TwinCam A&B	Stock HD 01-05 (Stock 4.22 Inj)	Stock HD FL Head Pipe
608	HarleyDavidson	95ci	TwinCam A&B	Stock HD 01-05 (Stock 4.22 Inj)	2:1 Thunderheader FL (Long)
609	HarleyDavidson	95ci	TwinCam A&B	Stock HD 01-05 (Stock 4.22 Inj)	True Dual FL Headpipe
610	HarleyDavidson	95ci	TwinCam A&B	Stock HD 01-05 (Stock 4.22 Inj)	Stock HD FL Head Pipe
611	HarleyDavidson	95ci	TwinCam A&B	Stock HD 01-05 (Stock 4.22 Inj)	2:1 D+D Fat Cat
612	HarleyDavidson	95ci	TwinCam A&B	Stock HD 01-05 (Stock 4.22 Inj)	2:1 V&H Pro Pipe
613	HarleyDavidson	95ci	TwinCam A&B	Stock HD 01-05 (Stock 4.22 Inj)	True Dual Bassani Power Curve
614	HarleyDavidson	95ci	TwinCam A&B	Stock HD 01-05 (Stock 4.22 Inj)	Stock HD FL Head Pipe

Extended Details

Air Cleaner: Hi-Flow/2.75" Deep  
 Cam: Red Shift TC 657  
 Muffler: Model = FLT/HT  
 Cylinder Head: HD TC Ported 2.0/1.62  
 Piston: TC 4.125 Dome Top  
 Modifications: None  
 Date: 03-25-2011

Notes / Comments

Notes:  
 Map Developed for 01-05 Big Bore Engines with 4.00 Stroke (99-05 engines) Use with Similar Throttle Body- Injectors, Aftermarket Cams and Exhaust Style

Lower Idle OK  
 03/25/2011  
 Lowered 0 & 256 rpm timing pages to 1 degree.  
 Previous map: 498

Buttons: Clear Filters, Close, Delete, Excel Export

*These maps have been engineered and designed using popular component combinations.*

**Note:** Due to the number of components available, some combinations may not be listed. The ThunderMax is designed to utilize the map that most closely matches your combination and automatically make adjustments as necessary.

- Under 'Engine Type', use your mouse and 'Right-Click' the engine size that most closely matches your engine.

Base Map Definitions

Item	Manufacturer	EngineType	Family
531	HarleyDavidson	80ci	EVO
532	HarleyDavidson	80ci	EVO
533	HarleyDavidson	80ci	EVO
534	HarleyDavidson	80ci	EVO
538	HarleyDavidson	80ci	EVO
586	HarleyDavidson	110ci	TwinCam A&B
590	HarleyDavidson	103ci	TwinCam A&B
591	HarleyDavidson	103ci	TwinCam A&B
592	HarleyDavidson	103ci	TwinCam A&B
593	HarleyDavidson	103ci	TwinCam A&B
594	HarleyDavidson	103ci	TwinCam A&B



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# HOW TO:



- Now, Scrolling to the right, 'Right-Click' the **Cam** that most closely matches yours.

Base Map Definitions			
Muffler	AirCleaner	Cam	
N/A	8"Diam/2.75" Deep	Andrews EV27	
100 Mufflers	8"Diam/2.75" Deep	Red Shift TC 559	HI
100 Mufflers	8"Diam/2.75" Deep	Andrews EV27	
= FLT/HT	8"Diam/2.75" Deep	Andrews EV27	
= FLT/HT	8"Diam/2.75" Deep	Andrews EV27	
= FLT/HT	Hi-Flow/2.75" Deep	SE 253	
100 FLT Mufflers	Hi-Flow/2.25" Deep	SE 253 (CVO)	
100 FLT Mufflers	Hi-Flow/2.75" Deep	SE 253 (CVO)	
100 Mufflers	Hi-Flow/2.75" Deep	SE 253 (CVO)	
100 Mufflers	Hi-Flow/2.75" Deep	SE 253 (CVO)	
N/A	Hi-Flow/2.25" Deep	SE 253 (CVO)	
N/A	Hi-Flow/2.75" Deep	SE 253 (CVO)	
= FLT/HT	Hi-Flow/2.25" Deep	SE 253 (CVO)	
= FLT/HT	Hi-Flow/2.75" Deep	SE 253 (CVO)	

If your specific cam is not listed, use the chart below to determine which is the closest.

### Cam Specification Chart-[Cam Specs](#)

- Now, scroll back to the heading '**Throttle**' and 'Right-Click' on the throttle-body with the injector size closest to yours.

Family	Throttle
EVO	'01-'05 50mm Zippers (stock 4.22 Inj)
EVO	'01-'05 50mm Zippers (stock 4.22 Inj)
EVO	'01-'05 50mm Zippers (stock 4.22 Inj)
EVO	'01-'05 50mm Zippers (stock 4.22 Inj)
EVO	'01-'05 50mm Zippers (stock 4.22 Inj)
TwinCam A&B	Stock HD TC 06-07 all, '08-up FX (25° Inj)
TwinCam A&B	Stock HD 01-05 (Stock 4.22 Inj)
TwinCam A&B	'01-'05 50mm Zippers (stock 4.22 Inj)
TwinCam A&B	'01-'05 50mm Zippers (stock 4.22 Inj)
TwinCam A&B	'01-'05 50mm Zippers (stock 4.22 Inj)
TwinCam A&B	'01-'05 50mm Zippers (stock 4.22 Inj)
TwinCam A&B	Stock HD 01-05 (Stock 4.22 Inj)

Click the link below to determine which injectors you have.

### Fuel Injection-How to Identify Injectors-[Fuel Injector Specs](#)



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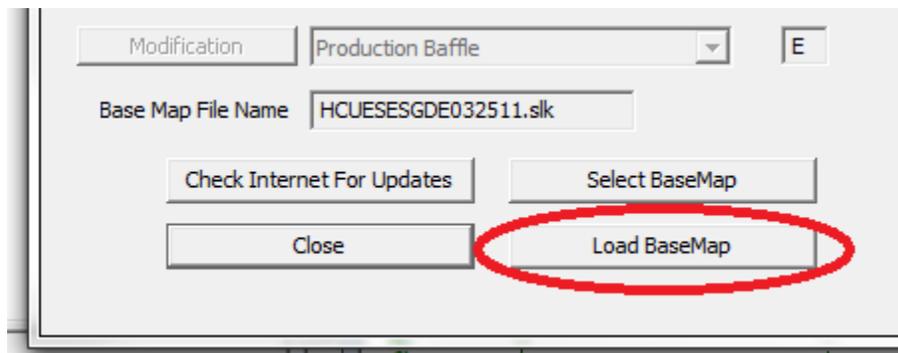


Your list of Base Maps should now be narrowed down to just a few possible selections.

From the remaining maps, choose one with components closest to yours.

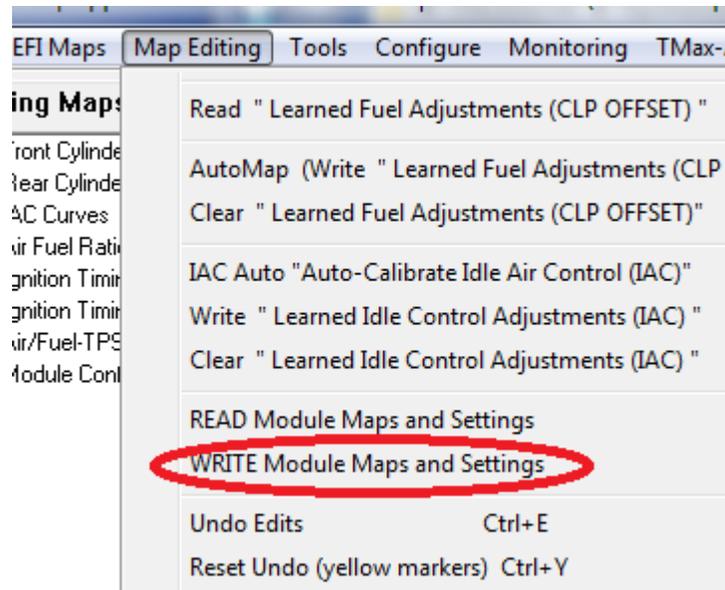
## Loading Your Selected Map

1. Select the desired map by double clicking anywhere on the base map definition line.
2. Select “Load Base Map” from the Base Map Name Encoding window.

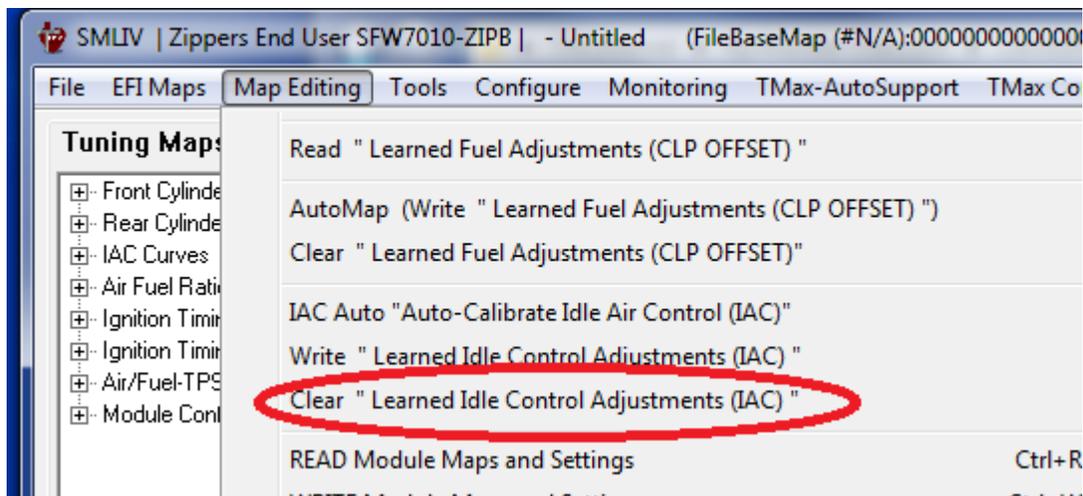


3. On your motorcycle, turn the Run switch and the Ignition switch to the ‘On’ position.

- In the Main Tool Bar, go to “Map Editing” and then “Write Module Maps and Settings”.

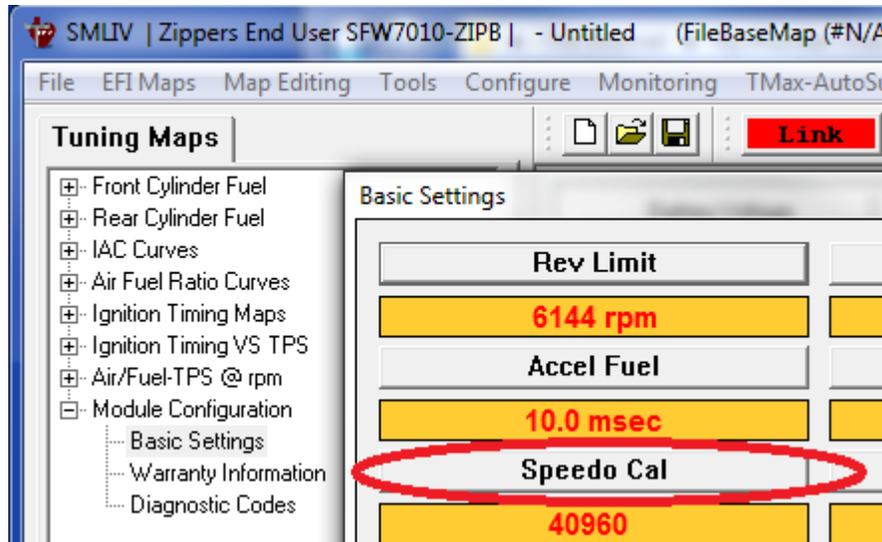


- Go to “Map Editing”, then “Clear Learned Idle Control Adjustments”. This step does not apply to Throttle-By-Wire systems.



***This step does not apply to Throttle-By-Wire systems.***

- In the “Tuning Maps” tree, go to “Module Configuration” and then “Basic Settings” to confirm the correct Speedo-Cal value for your year and model motorcycle.



- Follow the applicable link below to initialize your module.

## [How To Initialize Module \(GenII\)](#)

For ThunderMax Systems on Motorcycles with Cable-Throttle Control

## [How to Initialize Module \(TBW\)](#)

For ThunderMax Systems on Motorcycles with Throttle by Wire Control