## **Guide Contents:**

TechView has been designed to assist technicians in quickly diagnosing vehicles by graphing Real-Time Data, Snapshot Data, DTC Information, OBD System Monitor, and Freeze Frame Data. The following guide will navigate you through the extensive features it has to offer.

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- Computer with TechView
- Vehicle

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## **Screen Commands Overview**

## **SECTION 1: Getting Started**

1. Connect the Diagnostic Tester to DCL 3 in the vehicle. Place the Diagnostic Tester next to the TIS machine and plug the RS232 line into the tester. Turn the Diagnostic Tester ON and go into the Enhanced OBD II mode.

**Note:** TechView supports serial and V-BoB data, but does not support NVH or oscilloscope data.

2. Create a new **User**. Follow the diagram below and enter your name. Having your own user name will keep your files separate from other technicians.

File View Go Window Setur Help 1. Click on <b>User.</b>
Home Data User New Open Save Print Back Forward Stop Refresh Screen
Change Current User       Current User:       Generic User       Available Users:       1       Last Name       First Name       Technician Number       Generic User
2. Click on Add New User.
Edit Profile     Add New User     Delete User       OK     Cancel
Add New User 2. Choose a name.
Last Name: First Name: Technician Number
4. When done, click on <b>OK.</b>
OK Cancel
Fig. F-2 TI 874/F02

2a.	After creating a	new User,	open a	New	document.
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Anne     Max     Max     Max     Max       Home     Data     User     New     Open     Save     Print     Back     Forward     Stop	Refresh
1. Select name.	K A
Current User: A Team []	
Availyble Users: 2           Las Name         First Name         Technician Number           Carlois Users         CARE	R
Team A C:\PF	NE
	(B)
Edit Profile Add New User Delete User	
OK Cancel	
	( )
	Fig. F-3
	TL874fF03

3. Enter File Information. This screen allows you to store vehicle diagnostic information as well as shop information.

1. Click on File	Informaton.	Streen 2. Enter	Diagnostic & Oth	er Information.
Real-Time Data List         Image: Tester Snipshot Data         Image: DTC Information         Image: DTC Information	Year: Make: Modet Sub-Modet Sub-Mode		Symptom 1:	• • •
				Fig. F-4 TL874fF04

4. View the Real-Time Data List. To view live tester data, follow the steps below to get into the correct mode.

1. Clic	k Real-Time Data List.
<b>/</b>	
Ele Edit View Controlo etup	Window Rab
Horse Data Uper New	Den Save Bit Back Forward Stop Refeath Screen
TechNew1     RealTime Data List	This is a folder that contains stored Tech/View records. Click on a record to view its contents or follow the steps below to live tester data.
- Main Tester Snapshot Data - Main DTC Information	Hew to View Live Tester Data in TechView 2. Put tester into <b>Data List</b> mode.
FielInformation	<ol> <li>Connect the Tester to the appropriate serial port on the PC.</li> <li>Connect the Tester's Diagnostic Connector Link and power cable to the vehicle.</li> <li>Put the Tester into operating modes:         <ul> <li>Data List</li> <li>Tester Snapshot replay</li> <li>DTC Information</li> <li>OBD System Monitors or Readiness</li> <li>Freeze-Fame data</li> </ul> </li> <li>When the tester is in the desired mode, click the "Get Data" icon from the main TechView toolbar.</li> </ol>
	Fig. F-5 11874fF05

**Note:** If you receive the error message listed below after clicking the Data button, check the RS232 line (the cable from the computer to the tester) and then the DLC 3 cable (from the tester to the vehicle) are in place. If you are still receiving an error message, reboot the computer.

# Error - No response from the Diagnostic Tester. Ensure the Diagnostic Tester is properly connected. (Code: 325)

If the error message still occurs, refer to TSB SS0004-00 for Diagnostic Tester warranty repair.

#### 4a. View Live Data.

Image: Field         Tigger Ready           Image: Tack/new2         Passetts         Value         Units           Image: Read Time Data Lit:         Match 200         16         X           Image: Read Time Data Lit:         Image: Read Time Data Lit:         Match 200         16         X           Image: Read Time Data Lit:         Image: Read Time Data Lit:         Image: Read Time Data Lit:         Match 200         16         X           Image: Read Time Data           Image: Read Time Data         Image: Read Time Data         Image: Read Time Data         Image: Read Time Data         Image: Read Time Data           Image: Read Time Data         Image: Read Time Data         Image: Read Time Data         Image: Read Time Data         Image: Read Time Data           Image: Read Time Data         Image: Read Time Data         Image: Read Time Data         Image: Read Time Data         Image: Read Time Data           Image: Read Time Data         Image: Read Time Data         Image: Read Time Data         Image: Read Time Data         Image: Read Time Data           Image: Read Time Data         Image: Read Time Data         Image: Read Time Data         Image: Read Time Data         Image: Read Time Data           Image: Read Tim	Parameter         Value         Units           SP0(sP2)         0         MPH           SP0(NC0)         650         rpm           LDOX.UF SOL         0FF         PATECEM Sol for the sol for t
ELECT LONG SIG STOP LIGHT SW OFF AC CUT SIG FUEL PLMP / SPD OFF/ML EVAP VSV ON VAPOR PRESS VSV ON/TANK	REVERSE OFF 4THODRIVE OFF 2NO OFF LOW OFF SOLENDID[SLT] ON IGNTION 376 CVL #1 0 % CVL #2 0 % CVL #2 0 % CVL #3 0 % CVL #3 0 % CVL #6 0 % CVL #6 0 % CVL #7 0 % CVL #8 0 % AT FLUID TEMP 48 °C
Uter A Team	

5. View a specific data list.

Dpen Save Print Notes Select All Lot Bar M	1. Click List. der Geoge Line Curton Screen	
	2.9 ms	
	14.0 deg	
2. Click the <b>Select</b> button next to <b>Intake Air</b> to change the parameter.	16 %	
	5 gm/s	
	715 rpm	
	90 °C	
	52 °C	
Select THROTTLE POS	14 %	
User A Team P	ecord Live Data Texter Status Convected/Real-Tine	
	Fig TL87	j. F-7 4fF07



6. Change the parameters. This function allows you to view and compare specific data.



7. Remove and add parameters. In this screen, up to eight parameters can be selected at one time.

**Note:** Selecting fewer parameters with the Diagnostic Tester will NOT allow the program to run faster. The refresh rate is only as fast as the ECM.

### **SECTION 2: Graph Data**

8. Graph Data. The next few screens will show you several ways to graph vehicle data.

**Note:** Notice that the red represents the maximum and the green represents the minimum in all graphs.





8a. View the Meter and Gauge graphing options.

8b. You can view several line graphs at one time. By clicking on the graph button you can view the graphs one at a time.



8c. Another option is to watch several line graphs at one time in two different views.



8d. Customize Graph. This option will allow you to graph the data using any or all types of graphs.



## **SECTION 3: Record and Retrieve Real-Time Data**

9. Record and Retrieve Real-Time Data. Notice the four buttons on the left side of the screen, starting with the green button. This is the Play button, followed by the Pause, the Stop, and then the Trigger button.

#### **Practice Exercise**

**After clicking on ALL in step 1**, set the recording time for 15 seconds. Follow the diagrams below to use the Trigger button to record the data. Increase the rpms to 3000, 3 times in order to see the data change. Recording time can be set up to 10 minutes.

**Note:** A TechView Record can contain multiple Live Data Lists, Snapshot Data, DTC Information, OBD System Monitors, and Freeze Frame Data.



10. Add Real-Time Data Record. The "Add Record" box will appear whenever you want to view data in TechView. Save the Record and name it according to the vehicle and the condition. This naming process is going to be left to your own discretion. Relate the Record name to the purpose of the created data.

## **Example: Misfire Data**

Paraneter	Value U	leits		Paraneter	Value	Units	
NIE Add Record					×	MPH	
IGN CALL IN CALL						rpen	
MAE Record Name:	Real-Time Data	List 1		06/30	/0010:37		
ENG							
DOC Note:					14		
ND THE							
CTP							
VEH							
0.25							
025						24	
025						ż	
SHC	1				<u>*</u>	*	
LON AddTox	T = = 10.1 = = = 1		-	E freehl	Descent	2	
TOT	T ectivites/1		<u></u>	1 Statt Fe	M D DCLININ	24	
LON -Vehicle Infor	nation					*	
TOT Year	2000	_	Engine	UZI ZFE		t	
0.2F							
02F Make:			Licence				
FUE							
FC I Model			ID Code:				
ML Submodel							
021							
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STA				-			
A/C SIB REP Stul RISUIT	ON						
ELECT LOAD SIG	ON						
STOP LIGHT SW	OFF		\				
A/C DUT SIG	ON		<b>\</b>				
FUEL POMP / SPU	ON						
WAPOR PRESS VSV	ON/TANK						
SHIFT	1:#						
		:					
			Enter info	and click	Add.		
					Addi		
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							TI 874fF16

## **SECTION 4: Take Snapshot Data**

11. TechView allows you to take Snapshot Data with the Diagnostic Tool and retrieve it in TechView. There will be times when you will want to record and retrieve a data stream. The following exercise will help you understand this process.

#### **Practice Exercise**

With the vehicle running, take Snapshot Data of the Throttle Position, O2 sensor, Engine Speed, and MAF using the Diagnostic Tester. Then view the snapshots using TechView by following the diagram below.

Home Data User Nerv	Image: Dependence of the second second second to view       Dependence of the second second second to view       Dependence of the second second second to view       Dependence of the second second second second to view	its contents or follow the steps below to view
1. Click Tester Snapshot Data.	How to View Live Tester Data in TechView  1. Connect the Tester to the appropriate serial port on the PC. 2. Connect the Tester's Diagnostic Connector Link and power cable to the ve 3. Put the Tester into one of the following modes:	hicle. a main TechView toolbar. <b>further operating information.</b>
	2. Put tes 3. Then c	ster into Snapshot replay. click on <b>Data.</b>
		Fig. F-1 11874fF17

11a.	Add Snapshot Record	l Notes and	Vehicle	Information.
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Real Time Outs Life     Real Time Outs Life     Real Time Outs Life     South Time To supplier Train     South Spanne Hamilton     South Spanne Hamilton     Real Time Outs     Real Time South     Real Time South	This is a folder that costales stored TechView records. Click an a second to view its carbons or fol lise tenter data.           #46 Towned         Velocity Internet         Internet	
	Enter information a	and click <b>Add.</b> Fig. F-18

11b. Now you are able to graph and play the snapshot data from the Diagnostic Tester. Simply click on any of the graph features.



# **SECTION 5: DTC Information**

12. View DTC Information. After storing the vehicle's DTCs on the tester, follow the diagram below.

1. Click Di Home Data User Yew	C Information. □pen Save Park Back Forward Stop Refresh Screen
Carrry01 DTC	This is a folder that contains stored TechView records. Click on a record to view its contents or follow the steps below to view live tester data.
OBD System Monitors     OBD System Monitors     Freeze Frame Data     File Information	<ol> <li>Connect the Tester to the appropriate serial port on the PC.</li> <li>Connect the Tester's Diagnostic Connector Link and power cable to the vehicle.</li> <li>Put the Tester into one of the following modes:         <ul> <li>Data List</li> <li>Tester Snapshot replay</li> <li>DTC Information</li> <li>OBD System Munitors or Readiness</li> <li>Freeze-Fame data</li> </ul> </li> <li>When the tester is in the desired mode, click the "Get Data" icon from the main TechView toolbar.</li> <li>If you need help operating you Tester, refer to its User's Manual for further operating information.</li> </ol>
	<ol> <li>Put tester into DTC mode.</li> <li>Then click on <b>Data.</b></li> </ol> Fig. F-20

12a. Add DTCs to file. Click on the Add button at the top of the screen to save a DTC Record to your file.



#### 12b. Add DTC Record

Notes:			
			_
			-
Add To:			
- Vohiolo Info			J Start New Document
		<b>F</b>	.EE
Year:	12001	Engine: 11112	-FE
Make:	Toyota	License: TEC	H1
Model:	Camry	ID Code:	
Submodel:	[	_	
		bbA	Cancel Help

**Note:** To retrieve OBD System Monitors and Freeze Frame Data, follow the same procedure as above. Always put the Diagnostic Tester into the desired mode, then put TechView in that same mode to retrieve data.

12c. DTCs are stored.

Home Data User New D CamyO1 DTC Beal-Time Data List Tester Snapshot Data DTC Information	pen Save Pint Diagnost DTC Type: 0 OBD Mode: 0	ic Trouble (	Godes	
OTC Information 1 - 10	Group Nun Powert P0:	nber ECU/Syst 301 ENGINE	Description Cylinder 1 Misfire Det	
File Information				
				Fig. F-2 1874fF23

#### **SECTION 6: Save File**

13. Save information. Save all the information have gathered by clicking the Save button at the top of the screen. Name the file by following the example below:

#### **Example: Camry 01**

Always start with the vehicle name (Camry), then the year (01). It is extremely important to always follow this naming system. It will make it much easier to find and sort files in the future because they will automatically be sorted into alphabetical order.

Home Data User New	Open Save Print Notes 1. Click Save.	
E - Real-Time Data List - Mile Real-Time Data List - Mile Tester Snapshot Data E - Mile DTC Information	Diagnostic Trouble Codes - None DTC Type: OBD Mode: OBD-II	
DTC Information 1	Save in: ATeam I Conception ? X Save in: ATeam Camp01	
	File name:     Camy01       Save as type:     TechView Files (".evn)         Cancel	
		Fig. F-24 <sup>T874fF24</sup>

13a. Close the window and re-open the file to see that you have saved it.

Home Data User New	2. Click on the <b>X</b> to close the window	V.
Carry01 Carry	Diagnostic Trouble Codes - None	
DTC Information 1	Save As       ? ×         Save jn:       Image: Camy01         File game:       Camy01         Save as type:       Techt/iew Files (*.evn)	
		Fig. F-2



13b. Re-open the file by clicking Open and then double clicking on the file name.

	т —				Trigger Ready				
- Techi	inc .	Parameter	Valie	lun l		Parameter	Value	Units	
= <b>M</b>	eal-Time Data List	INJECTOR IGN ADVANCE CALC LOAD	10 14.0 16	deg ts	<b>\</b>	SPO(SP2) SPO(NCO) IP SOL	0 650 0FF	MPH rpm	
	D Life Data	ENGINE SPD	703	gn/s rpn	1. Click <b>Pr</b>	int. RNSW M	2 OFF OFF		
- 191	ester Snapshek Daka	COOLANT TEMP	90	ŤC .		5E	OFF		
500	TC Information	THROTTLE PDS	52	С 1	·····	240	OFF		
-		CTP SW	ON			LOW	OFF		
- 1 <del>0</del> 0	8D System Monitors	VEHICLE SPD	0	MPH		SOLENOID(SLT)	ON		
	anna France Data	0.25 81 S1 0.25 81 S2	0.70	v.		CVL #1	376	*	
2	eco mane para	025 82 51	0.76	ý.		CYL #2	ă	- x	
- 🔜 F	le Information	025 02 52	0.05	V.		CYL #3	a	72	
		SHORT FT #1	-0.9	2		C/L #4	0	2	
		TOTAL FT #1	1.04	-		CYL #5	0	n t	
		SHORT FT #2	-0.9	2		C/L #7	ä	2	
		LONG FT #2	3.8	*		CYL #8	0	*	
		TOTAL PT #2	1.04			AT FLUID TEMP	-40	τ	
		0.051 82 51	-0.9	2					
		FUEL SYS #1	či.	-					
		FUEL SYS #2	CL.						
		FCIDL	OFF						
		02188151	UPP IPS						
		021R8251	65	nes					
		02 RL 81 51	85	1983					
		02 FL 82 51 STADTED SIG	85 0FT	ne					
		ACSIG	OFF						
		PNP SW NSW	ON						
		ELECT LOAD SIG	DN						
		STOPUGHTSW	OFF						
		FUEL PUMP / SPD	DFT/ML						
		EWAPVSV	ON						
		WAPOR PRESS VSV	ON/TANK						
		ann	-10						
ID UZ/2FE				U	er A Team	Record Live Dat	la	Tester Status	Connected/Real Te

14. Print File. After opening your file, simply click on the Print button to print the file.