'06 YZF-R6

FI MATCHING SYSTEM INSTRUCTION MANUAL Ver1.11



The Performance Edge



for excellent riders

CONTENTS

1	Intro	duction	1
	1–1	Objective	1
	1–2	Recommended operation environment for the personal computer	1
	1–3	Example of connecting the personal computer	1
	1–4	Installing method	
	• •	1–4–1 File structure	
		1–4–2 Installing procedures	
	1–5	Copy of base data	4
		1–5–1 Copy procedures	
2	Outli	ne of functions	5
3	Quic	k -manual	9
	3–1	List of operations	9
		3–1–1 Editing and writing in of ECU data	9
		3–1–2 Editing of saved data in files and writing in ECU	9
		3-1-3 Comparison of data saved in files and ECU data	10
	3–2	Explanation of operations	11
		3-2-1 Editing and writing in of ECU data	11
		3-2-2 Editing of data saved in files as well as writing in ECU	15
		3-2-3 Comparison of data saved in files and ECU data	16
4	Expl	anations of screens	18
	4–1	Editing screen	18
	4–2	Function explanation	20
		4-2-1 Graph editing function on MAP screen	20
		4-2-2 MAP editing function on TABLE screen	20
		4-2-3 Selecting of plural cells, editing, copy function on the TABLE screen	20
		4-2-4 Pasting function of plural cell data on TABLE screen	21
5	Pull	down menu	22
	5–1	File	22
		5-1-1 Open	22
		5-1-2 Close	23
		5–1–3 Save as	
		5–1–4 Directory	
		5–1–5 Exit	23

5–2	Edit	
	5–2–1 Undo	
	5–2–2 Copy	
	5-2-3 Paste	
5–3	Monitor	
	5-3-1 Monitor	
	5-3-2 Item set	
5–4	Tool	
	5–4–1 Com	
	5–4–2 Title	
	5-4-3 Edit Const	
	5-4-4 Read from ECU	
	5-4-5 Write to ECU	
	5-4-6 Data Compare	
5–5	Window	
	5–5–1 All	
	5–5–2 Monitor Dialog	
5–6	Help	

1 Introduction

1–1 Objective

This in an instruction manual on the YEC FI Matching system (YMS)

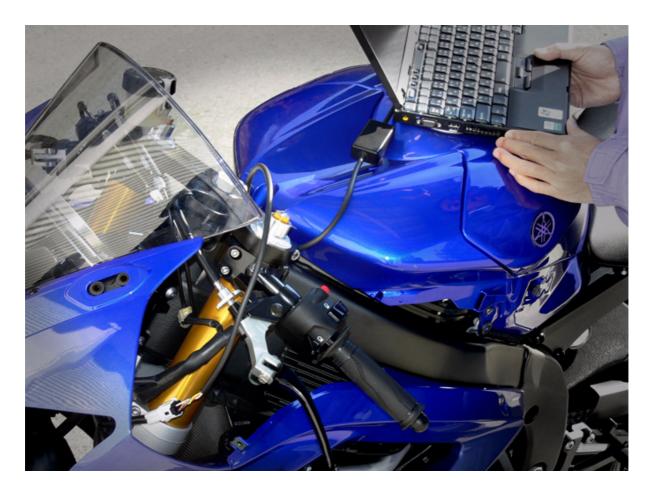
1–2 Recommended operation environment for the personal computer

• CPU

Memory

- : Pentium 500 MHz equivalent or higher : 256 MB or above
- OS : Windows XP US edition, Japanese language edition
- Recommended monitor resolution : 1024 x 768 or higher

1–3 Example of connecting the personal computer



1–4 Installing method

1-4-1 File structure

As base data folder, prepare YMS_Data folder

1-4-2 Installing procedures

When YMS_SETUP.exe is executed, setup program starts and Fig. 1. Welcome screen is shown.



Fig. 1: Welcome

END USER LICENSE AGREEMENT WARNING YEC, A COMPANY DULY ORGANIZED AND EXISTING UNDER THE

icense agreement

Select [Next] and Fig. 2., Product License Agreement screen is shown.

WARNING TEC, A COMPANY DULY ORGANIZED AND EXISTING UNDER THE LAWS OF JAPAN, IS WILLING TO PROVIDE YOU ITSTALLATION TO THIS YEC FI MATCHING SYSTEM ("APPLICATION") ONLY UPON THE CONDITION THAT YOU ACCEPT ALL OF THE TERMS CONTAINED IN THIS AGREEMENT ("USER AGREEMENT"). PLEASE READ THESE TERMS CARPFULLY BEFORE INSTALLING OR USING THIS APPLICATION WILL CONSTITUTE YOUR ASSENT TO THESE TERMS. IF YOU DO NOT AGREE TO THESE TERMS, YEC IS UNWILLING TO GRANT YOU INSTALLATION TO OR USE OF THE APPLICATION.
 <u>Grant of License</u>. In this User Agreement, you, the purchaser of the license rights granted by this User Agreement, YEC grants you a personal, non-exclusive, limited license to use the Application in accordance with the instructions contained in the accompanying documentation. You acknowledge and agree that the Application shall only
 To acknowledge pullere need and accepted these terms and to inital the agriculture, taket "UK" Otherwise, the "CANCEPT" in the biltowing diagone box and then disk. "UK" Otherwise, the "CANCEPT" in the biltowing diagone box and then disk. "UK" Otherwise, the "CANCEPT" in the biltowing diagone box and then disk. "UK" Otherwise, the "CANCEPT" in the biltowing diagone box and then disk. "UK" Otherwise, the "CANCEPT" in the biltowing diagone box and then disk. "UK" Otherwise, the "CANCEL"]

Fig. 2: Product License Agreement

YEC FI Matching System - InstallShield Wizard	
Customer Information Please enter your information.	4
Please enter your name, the name of the company for which you work and the product senial number.	
TEST User	
Company Name:	
TEST Company	
Serial Number:	
InstallShieldCanc	el

Fig. 3: Registering of customer's information and serial No. certification

[Select [Next] and Fig. 3, Registering of customer's information and serial No. certification screen is shown.

For [User name] and [Company name] setting information is acquired by default from the OS while the [Serial Number.] given on the booklet in the CD-ROM package is inputted.

Neither item may be omitted. Upon inputting all items, gray-out of [Next] is released and selecting may be made.

Click [Next] and Fig. 4, Selecting of the installing folder screen is shown.

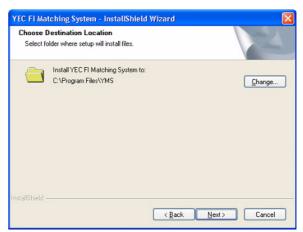


Fig. 4: Selecting of the installing folder

YEC FI Matching System - InstallShield Wizard Choose Destination Location Select folder where setup will install files. Base data folder: C:\YMS_DATA Change... <<u>B</u>ack <u>N</u>ext> Cancel

Fig. 5: Selecting of base data folder

Select the base data folder. The default value is Ready to Install the Program The wizard is ready to begin installation. When [Change] button is pressed, the Selecting Click Install to begin the installation. of folder screen is shown. Select [NEXT] and Fig. 6, Installation confirming

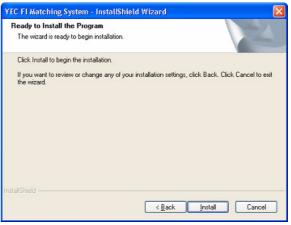


Fig. 6: Installation confirmation.

Select the destination folder in which the system is to be installed. The default value is "\Program Files \YMS".

Select [NEXT] and Fig. 5, Selecting of base data folder screen is shown.

Specify folder Path optionally by [Path] or specify existing folder by [Directories].

"\YMS_Data".

screen is shown.

Select [Install] and installation starts. Upon finishing installation, Fig. 7 Setup completion screen is shown.

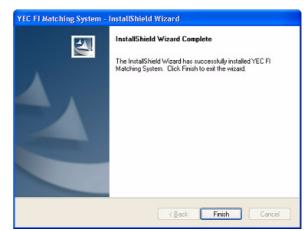


Fig. 7: Set up completion

When [Finish] is pressed, setup in completed. Upon finishing setup, "YEC FI Matching System" shortcut is displayed on desktop and on start menu. Program maybe started from this shortcut.

1–5 Copy of base data

1-5-1 Copy procedures

Copy the base data (06-R6_Base Data_00.ycz) stored in the installed CD to "C:\YMS_DATA" manually.

2 Outline of functions

The following functions are seen in the YMS.

- To read data from ECU, edits fuel adjusting map and ignition map, and writes in ECU.
- To read saved data, and after confirming the contents and editing, writes in ECU.
- To read saved data, and compares with ECU data or other saved data.

Function outline of the YEC FI Matching System

	Map items	Functions	Contents
(1)	Shifter / Cut Time	Sets ignition cut time	Setting possible by each gear within scope of 0
		by each gear	to 150 ms.
			When shifter/cut time (***)=0 ms is set, the
			selected gear flameout control can be
			ineffective.
(2)	Comp. FUEL	Adjusts A/F	Corrects fuel amount by increasing-decreasing
			within range of ±30%
			Effective at 3,000 rpm and higher (Not
			corrected at less than 3000 rpm)
(3)	Offset IGNITION	Corrects ignition time	Corrects ignition timing within range of -15° CA
			to 5° CA
			Effective at 3000 rpm and above. (Does not
			make corrections at less than 3000 rpm).
(4)	ETV MAP Select	Selects ETV map by	By selection of 0/1/2. select by each gear 0: No
		each gear	correction, 1: ETV1 map, or 2: ETV2 map
(5)	Comp. ETV1	Corrects ETV opening	Correct basic ETV opening within range of
			±100% (Reduction of end plate)
			Example: When 100% is set at complete
			closing (Th=0%) opens up to twofold of the
(6)	Comp. ETV2		idling opening.
			Acceleration correction
			Example: Suppress torque by inputting -20% to
			the area of high opening at low revolution.

	Const items	Functions	Contents
(7)	7) Comp. FUEL/All Adjusts A/F		Has same function as (2) Comp. Fuel and
	Area		makes uniform correction of operation areas.
			Corrects increase-decrease of fuel amount
			within a scope of ±30%.
(8)	Shifter/On Voltage	Sets speed shift start	Shifter control start voltage level adjustment:
		input voltage	Ignition cut is conducted when the voltage
			exceeds the set value and the engine torque is
			released.
			Can be set within scope of 4, 98V.
			In case of SW input, 2.5 V is acceptable.
(9)	Comp. RAM	Adjusts A/F relating to	Entered if there is discrepancy of A/F compared
	Correction	Ram pressure	with the vehicle speed.
			Can be adjusted within the range of ±10%.
(10)	Rev. Limiter Offset	Corrects revolution	Can be corrected within a range of -1000 rpm to
		limiter	0 rpm to existing value of revolution limiter.
(11)	PitRoad Limiter	For pit load control	Set within range of EG revolution range
		Setting of engine	between 2000 and revolution limit rpm.
		revolution limiter	
(12)	Gear Select	Transmission selection	Transmission selection function
			1: STD transmission
			2: -70/-80 transmission
			3: -70/-80 transmission

Targets for setting of the YEC FI Matching System and precautions

(1) Shifter/cut time

In case ignition cut time is short: Shift loss is reduced but there may cause hard gear throws. In case ignition cut time is long: Gear throws will be easier but shift loss will increase.

CAUTION:

If ignition cut time is too short, the drive system may be damaged.

(2) Comp. fuel (7) Comp. FUEL/All Area
 It is recommended that adjustment be made while constantly checking A/F. Aim for A/F 12 to 13.
 Change at one time should be changes of 2% to 5% and especially for changes on the reduction side, (in case of becoming thinner), pay attention to the A/F value while changing.

CAUTION:

If A/F is too thin, may relate to damage of the engine.

(3) Offset ignition

Adjust to the spark advancing side if too excessive, may possibly damage the engine. Sufficient care is needed when making adjustment. In case no change is seen when spark advancing is selected, or when at a loss to which side adjustment should made, it is recommended that adjustment be made to the spark retarding side.

CAUTION:

Adjusting to the spark advancing side may possibly damage the engine if too extreme.

(5), (6) Comp. ETV1/E2

CAUTION:

If open setting of the throttle is made to reduce engine braking, the engine revolution may not drop enough at corners and over-speeding may risk causing of serious accidents. Especially, a change in gear ratio, or the running on a course for the first time, will require paying of sufficient attention.

(9) Comp. RAM CorrectionUse only when the A/F diverges with increased vehicle speed.

(11) Pit Road Limiter

For control of engine revolution, obtain the necessary engine revolution from the following formula and input the obtained value.

Engine revolution =	Target speed (km/h) × (Primary speed reduction ratio × 1 st gear ratio × secondary speed reduction ratio) × 1000000
	60 × tire periphery (mm)

Primary reduction gear ratio	=	2.07
1 st gear ratio	=	2.58 (STD)
		2.16 (KIT)
		2.31 (KIT OPTION)

CAUTION:

Engine rpm is used for control. The function to compensate each gear is not provided. Consequently, set the value at 1st gear.

(12) Gear Select

CAUTION:

Set the mission selection function properly, otherwise Shifter/Cut Time does not function correctly.

3 Quick -manual

3–1 List of operations

3-1-1 Editing and writing in of ECU data

This is the operation procedure for reading in data from ECU, editing the fuel adjusting map and ignition timing map, and writing in ECU.

No.	Objective	Operation of YMS	Remarks		
(1)	Startup of YMS	Double click for shortcut to			
		YMS			
(2)	ycz File reading in	File > Open	Only YMS exclusive file		
(3)	Reading in data from ECU	Tool > Read from ECU	Keep power to ECU ON.		
(4)	Data content confirming,	Editing optional data of Map/	At this point, not reflected on		
	editing	Const.	ECU		
(5)	Writing in data in ECU	Tool > Write to ECU	Keep power to ECU ON.		
(6)	Title information editing	Tool > Title	Edit Title information as		
			required		
(7)	ycz File saving	File > Save as	Store file as required		

3-1-2 Editing of saved data in files and writing in ECU

This is the procedure for reading in saved data (ycz File), checking contents, editing, and writing in ECU.

No.	Objective	Operation of YMS	Remarks		
(1)	Startup of YMS	Double click for shortcut to			
		YMS			
(2)'	ycz File reading in	File > Open	Only YMS exclusive file		
(4)'	Data content confirming,	Editing optional data of Map/	At this point, not reflected on		
	editing	Const.	ECU		
(5)	Writing in data in ECU	Tool > Write to ECU	Keep power to ECU ON.		
(6)	Title information editing	Tool > Title	Edit Title information as		
			required		
(7)	ycz File saving	File > Save as	Store file as required		

3-1-3 Comparison of data saved in files and ECU data

This is the operation for reading in saved data (ycz File) and comparing with ECU data or other saved data (ycz File).

No.	Objective	Operation of YMS	Remarks		
(1)	Startup of YMS	Double click for shortcut to			
		YMS			
(2)	ycz File reading in	File > Open	Only YMS exclusive file		
(8)	Data comparison	Tool > Data Compare			
(9)	Comparison of edited data	Edit area with ECU > Verify	Keep power to ECU ON.		
	and ECU data.				
(10)	Comparison of other ycz	File data with ECU > Verify	Keep power to ECU ON.		
	File and ECU data.				
(11)	Comparison of editing data	Edit area with File data >	Only exclusive file for YMS		
	and other ycz File.	Verify			

3–2 Explanation of operations

3-2-1 Editing and writing in of ECU data

This is the operation procedure for reading in data from ECU, editing fuel adjusting Map and ignition typing map, and writing in ECU.

(1) Startup of YMS

Double click short-cut to YMS on desk top "YEC FI Matching System."

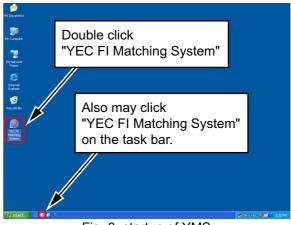


Fig. 8: startup of YMS

(2) Reading in ycz File
 File > open First, read in the ycz File of the applicable model in.
 (R6-06BaseData.ycz)

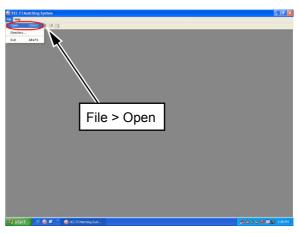


Fig. 9: Reading in of ycz File

(3) Reading in data from ECU.
Tool>Read from ECU
* At this time, keep power to ECU ON.
Read in is completed when "Complete" is displayed. Click "OK."

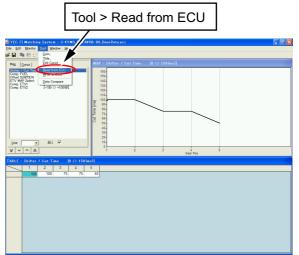
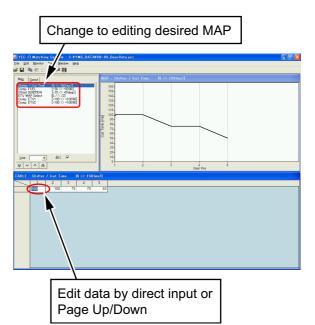
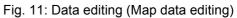


Fig. 10: Reading in data from ECU

- (4) Confirming, editing contents of data Edit optional data of Map/ Const.
 - * At this point, not reflected in ECU.





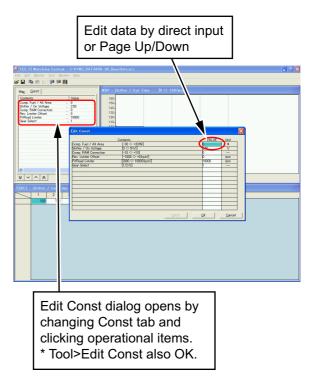


Fig. 12: Data editing (Const data editing)

(5) Writing in data to ECU Tool>Write to ECU *Keep power to ECU ON.
When "Data Write Complete Finished OK!!" is displayed, writing in is completed. Click "OK."

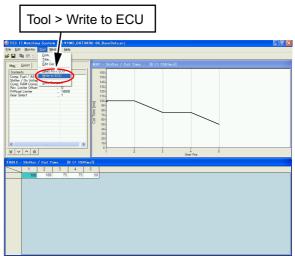


Fig. 13: Write in data to ECU

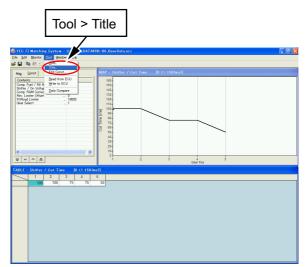


Fig. 14: Title Editor dialog startup

Select item on which editing is desired and click edit button for dialog startup of the edit title.

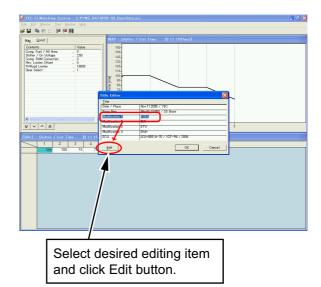


Fig. 15: Title Editor dialog

(6) Title information editing* Title is edited as required.Tool > Title

Edit optionally. Click OK to edit respective items

(7) Saving of ycz File

File > Save as

*Save files as required.

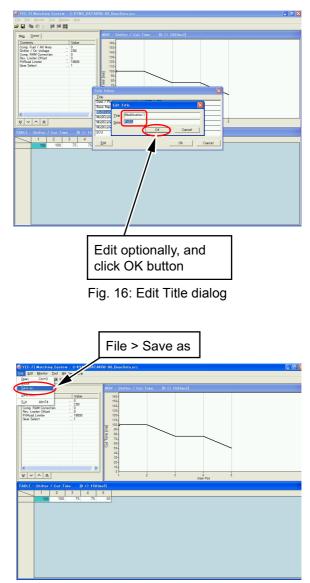


Fig. 17: Saving of ycz File

3–2–2 Editing of data saved in files as well as writing in ECU

This is the operation procedure when reading in saved data (ycz File), confirming of contents, then after editing, writing in the ECU.

- Startup of YMS is in accordance with 3-2-1, same as editing and writing in ECU data
- (2)' Read in ycz File.

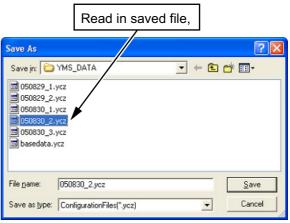


Fig. 18: Read in of ycz File

- (3) Read in of data from ECU is not required when editing data saved in file.
- (4)' Data content confirming editing Confirm that contents of data of Map/Const is the data desired for writing in ECU and edit if necessary.

* At this point, not reflected in ECU. Conduct (5) Writing in data to ECU, (6) Title information editing (7) Saving of ycz File after data editing by the same procedure with that of 3-2-1. Editing and writing of ECU data. <complex-block>

Fig. 19: Data content confirming editing.

3-2-3 Comparison of data saved in files and ECU data

This is the operation for reading in saved data (ycz File) and comparing with ECU data or other saved data (ycz File).

(8) Data comparisonTool > Data Compare

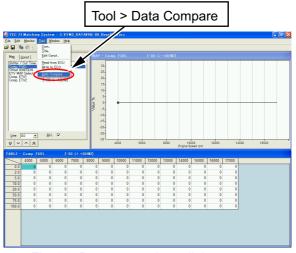
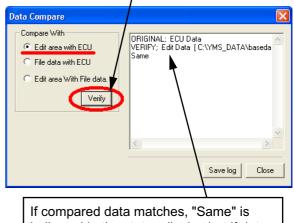


Fig. 20: Data comparison dialog startup

- (9) Comparison of edit data and ECU data In case it is desired to compare data presently being edited with ECU data, select "Edit area with ECU" and click Verify button.
 - * At this time, keep power to ECU ON.

Select "Edit area with ECU" and click Verify button.

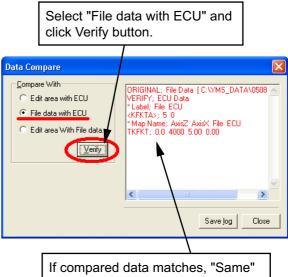


indicated in the status display but if data does not match, then "Difference label" is displayed.

Fig. 21: Data compare dialog (Edit area with ECU)

(10) Comparison of other ycz File and ECU data In case it is desired to compare other ycz File and ECU data while leaving data presently being edited as it is, select "File data with ECU" and click Verify button.
Open the open file dialog and specify the other ycz Files desired for comparison with ECU members.

*At this time, keep power to ECU ON.



If compared data matches, "Same" is indicated in the status display but if data does not match, then "Difference label" is displayed.

Fig. 22: Data compare dialog (File data with ECU)

(11) Comparison of Edit data with other ycz File In case it is desired to compare data presently being edited with other ycz File, select "Edit area with File data" and click Verify button.

The Open File dialog opens. Specify the other ycz File which you desire to compare with data presently being edited.

* "Edit area With File Data" does not conduct ECU communication because of comparison between the data presently being edited and the ycz File. Select "Edit area With File Data" and click Verify button.

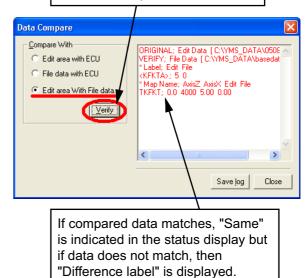


Fig. 23: Data Compare dialog (Edit area with File data)

4 Explanations of screens

4–1 Editing screen

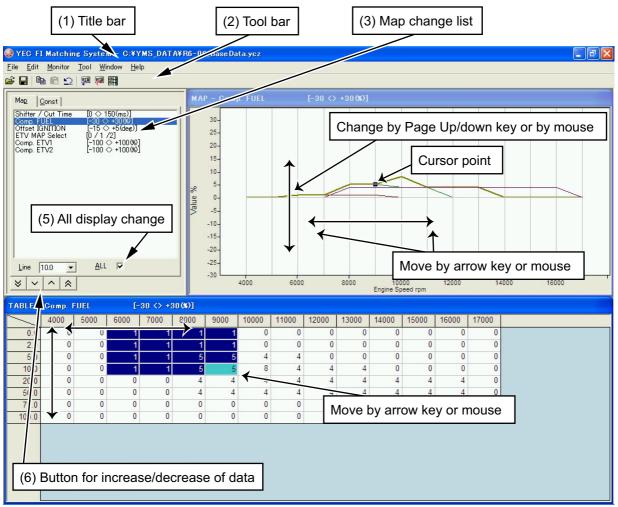


Fig. 24: Editing screen

(1) Title bar

Opened file names are shown by directory name on title bar.

(2) Tool bar

From the left

- Open :File-Open
- Save :File-Save
- Copy :Edit-Copy
- Paste :Edit-Paste
- Undo :Edit-Undo
- Read from ECU :Tool-Read data from ECU
- Write to ECU :Tool Write data to ECU
- Edit Const :Tool-Open Edit Const dialog
- (3) Map change list

Map tab: Displays a list of labels of MAPs to be edited, and when the cursor is pointed to a Label, the Map of the Label is displayed on the MAP window and on the Label MAP.

Const tab: Displays Const. List which may be edited. When list is clicked. Edit Const. dialog is opened.

(5) ALL display change

When checked, all lines of the MAP graph are displayed and when the check is removed, only the selected lines are displayed.

- (6) Button for increase/decrease of data
 - Button: Data of selected cell are reduced by tenfold of minimum increments
 - Button: Data of selected cell are reduced by minimum increments
 - Button: Data of selected cell are increased by tenfold of minimum increment
 - Button: Data of selected cell are increased by minimum increments

4–2 Function explanation

4-2-1 Graph editing function on MAP screen

 Data editing function on graph point Clicking on graph: Graph is selected and also the editing point of the revolution nearest to the clicked point is selected.

Drag and drop of graph data: Edit point is selected with left button down. By moving up and down, changed to the editing point nearest to the release point. (Direction of revolution is not changed)

4-2-2 MAP editing function on TABLE screen

Editing by key inputting is possible. When a value outside the data settable range is imputed, a warning message dialog is displayed and a value for which data settable value is automatically set.

* When a figure key or minus key is inputted, becomes in a cell editing status and key inputting status. Also becomes in a cell editing status by double clicking of the mouse.

• Editing of axis cell

Revolution axis, throttle opening axis may both be numerically inputted or may be changed by [Page Up]/[Page Down] keys. The input value is limited by the maximum input range or by the value of the adjacent cell value.

CAUTION:

The axis of Comp., ETV1, ETV2 (engine revolution, throttle opening) are common. When either one is changed, the same value is reflected on the other.

4-2-3 Selecting of plural cells, editing, copy function on the TABLE screen

When in a status with cursor at an optional cell, drag by mouse and a plural cell selecting status is seen. * When a numerical key or minus key is inputted, becomes in a cell editing status with key inputting status. Double clicking of the mouse releases multiple cell selection and becomes in cell editing status.

4-2-4 Pasting function of plural cell data on TABLE screen

Data array copied in a plural cell selecting status may be pasted by {Ctrl} + {V} key on any optional cell other than the revolution increment and throttle opening increment axis cells. Also, plural cell data copied from Excel, etc. may be pasted via the clip board.

* However, when plural cell data is copied on the clip board, posting cannot be made in a plural cell selecting status.

In case pasting of data array exceeding the cell range in which pasting on the Table is attempted, the data exceeding the pasting possible range is ignored. The pasted data is consistently rounded to a minimum increment figure. In case of values outside the data settable range, the limit value within the settable range is automatically set.

TABLE -	[ABLE - Comp. FUEL [-30 <> +30 (\$)]													
/	4000	5000	6000	7000	8000	9000	10000	11000	12000	13000	14000	15000	16000	17000
0.0	0	0	1	1	1	1	0	0	0	0	0	0	0	0
2.0	0	0	1	1	1	1	0	0	0	0	0	0	0	0
5.0	0	0	1	1	5	5	4	4	0	0	0	0	0	0
10.0	0	0	1	1	5	5	8	4	4	4	0	0	0	0
20.0	0	0	0	0	4	4	4	4	4	4	4	4	4	0
50.0	0	0	0	0	4	4	4	4	4	4	4	4	4	0
75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Fig. 25: Table

5 Pull down menu

5–1 File

<u>O</u> pen	Ctrl+O	••Open data file
<u>C</u> lose		••Close file to which read in made
<u>S</u> ave as		••Attach name and save.
Directory		••Display directory setting dialog
E <u>x</u> it	Alt+F4	••End YMS

*Close, Save, as...care not displayed in the pull down menu until read in of data file is made.

5-1-1 Open

Open ycz File.

[Open dialog]

Open File			? 🗙
Look in: 📔	YMS_DATA	- 🖬 📩 -	
basedata.	усг		
File <u>n</u> ame:	basedata.ycz	<u>0</u> pe	m
Files of type:	ConfigurationFiles(*.ycz)	▼ Cano	
riles of gype.	ConfigurationPiles(_9cz)		

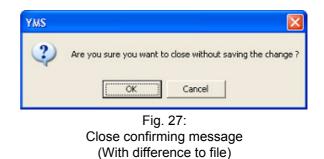
Fig. 26: Open dialog

5-1-2 Close

Close the ycz File being edited.

In case data editing was made from the file opened time or the file save time, a message to check whether data being edited may be closed without file saving is shown.

Also when data editing was made from the time "Tool>Read from ECU" or "Tool>Write to ECU was conducted, a close confirming message is shown to check whether closing may be made without writing to EUC of data being edited.



YMS	E Contractor a Contra
?	Are you sure you want to close without Writing to ECU the change
	Cancel
	Fig. 28: Close confirming message

Close confirming message (With difference to ECU)

5-1-3 Save as...

A name is attached to the ycz File being edited and saved.

A Windows standard Save As dialog opens for saving with a name attached to the file. File being edited may be given an optional name and saved. It is also possible to overwrite an

[Save as dialog]

Save As			? 🛛
Save jn: 隘	YMS_DATA	· ← € 6	* 🎟 •
🖬 basedata.	γcz		
File <u>n</u> ame: Save as <u>t</u> ype:	basedata051018_1 ycz	[<u>S</u> ave Cancel

5-1-4 Directory...

existing file and save.

A Default directory is set. A folder to be opened by default when conducting File>Open, File>Save as, may be set. The set contents are registered and opened by default at the next startup time.

[Directory setting dialog]

/
Data
OK Cancel
UK Cancel

Fig. 30: Directory setting dialog

Fig. 29: Save As dialog

5–2 Edit

<u>U</u> ndo	Ctrl+Z	••Return
<u>С</u> ору	Ctrl+C	••Сору
<u>P</u> aste	Ctrl+V	••Paste

5–2–1 Undo

When data is changed or revised with the data editing screen, the changes are cancelled. The data change information for Undo is kept by each Map.

5-2-2 Copy

Cell data selected on the Table Display screen is stored in the clip board.

With plural cell selected status, the selected plural cell data is saved in the clipboard.

5-2-3 Paste

Pastes data in the clip board by the Table Display screen.

In case there is a copied data array of plural cell selected status in the clip board, array data is pasted in plural in the right downward direction from the cell with the cursor. Data which is crowded out from the Table display screen become invalid.

5–3 Monitor

Monitor	Ctrl+M	 Monitor dialog is displayed
Item set		••Item setting dialog of the monitor is displayed.

5-3-1 Monitor

Processed value inside ECU is displayed simplified. Functions at less than 4000 rpm by a simplified monitor for function confirming (diagnosis) such as input sensor, etc. Since it is not a real time display, transient changes cannot be confirmed.

(1) Start button

Starts communications. When communication is started, the inscription changes to "Stop." When pressed during communications, communication is ended and the inscription returns to "Start." Also, communication ends when the dialog is closed.

5-3-2 Item set

Open set monitor data dialog and set Items.

- (1) List of items
- (2) List of monitor dialog items
 >[A] Addition of items
 <[D] Deletion of items

Items selected as monitor dialog items are automatically stored when YMS.exe is ended.

Monitor Start [01] Engine Speed rpm [02] Throttle Valve % [03] Air Temp. '0 [04] Water Temp. 'C [05] Atmospheric kPa [06] Intake Air kPa [07] System Voltage ٧ [08] Gear Pos. V [09] Shift Sensor/SW

Fig. 31: Monitor dialog

[Set monitor data dialog]

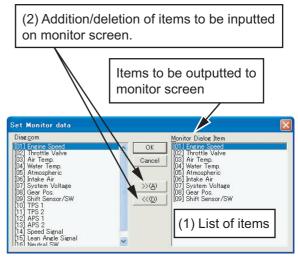


Fig. 32: Set monitor data dialog

5–4 Tool

<u>C</u> om	••Com port selecting dialog is displayed
<u>T</u> itle	 Title setting dialog is displayed
<u>E</u> dit Const	••Edit Const dialog is displayed
Read from ECU	••ECU data is read in as editing data.
Write to ECU	 Data being edited is written in ECU
Data Compare	••Data compare dialog is displayed

5–4–1 Com

Com port is selected

[Com Port setting dialog]

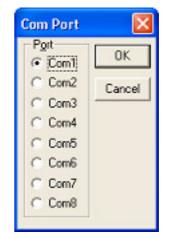


Fig. 33: Com Port setting dialog

5-4-2 Title

Items of [Title] of set file (*.ycz) are displayed and edited.

[Title setting dialog]

Date / Place	Nov.11.2005 / YEC
Base Map	R6-06_SS000 / SS Base
Modification 1	FUEL
Modification 2	IGN
Modification 3	ETV
Aodification 4	Shift
CU	2C0-8591 A-70 / YZF-R6 / 2006

Fig. 34: Title setting dialog

Data items being edited by title setting dialog are selected and when the Edit button is pressed, Edit Title dialog is opened.

[Edit title dialog]

Edit 1	Tit le	X
<u>T</u> itle	Modification 1	
<u>D</u> ata	OK Cancel	

Fig. 35: Edit Title dialog

5-4-3 Edit Const

Display [Calib] items and display and edit the physical quantity (value) of the item.

When a value outside the data settable range in inputted in data editing, warning message dialog is displayed and a limit value within the settable range is automatically set.

- (2) Undo button Undoes the editing contents
- (3) OK buttonFinalizes the editing contents and closes the dialog.
- (4) Cancel button (X button)Scraps the editing contents without finalizing and closes the dialog.

5-4-4 Read from ECU

Reads data from ECU and writes in editing area as edit data.

When executed, progress is displayed and when data reading is completed, "Complete" is indicated.

If reading in fails, a message reading "Failed to correspond with ECU, Read Error Address :XXXX " is displayed.

In case communication with other ECU is attempted, a message reading "ECU type is different" is displayed by model distinguishing check.

Each message closes by pressing OK button.

* When the monitor dialog is opened, this function cannot be executed.

[Edit Const dialog]

Decimal data input and display screen

5-4-5 Write to ECU

Write in editing area data to ECU. When executed, progress is displayed and when data reading in I completed, message reading "Data Write Compete Finished OK!!" is displayed.

If reading in fails, a message reading "Failed to correspond with ECU, Write Error Address: XXXX" is displayed.

When communication with other ECU is attempted, a message reading "ECU type is different" is displayed by model distinguishing check.

The respective messages are closed by the OK button.

- * This function cannot be executed while the dialog is opened.
- * After transferring of data, shut off the ECU power supply once. When switched on again, the transfer data become effective.

5-4-6 Data Compare

Open the Data Compare dialog.

(1) Compare With

Edit area with ECU: Making setting to compare edit area data and ECU data. File data with ECU: Making setting to compare data of ycz File with data of ECU. Edit area with File data: Making setting to compare data being edited with data of ycz File.

Verify button; Read in data in accordance with the setting and compare data.

(2) Status display

Press verify button to display executed results.

Display format

1st line, comparison origin data name 2nd line, comparison destination data name display

3rd line and subsequent, Label names with data differences. Displayed in the order of "comparison origin data," "comparison destination data,"

In case there are differences in Map data. "Map name,"; "Number of data differences" are displayed.

- (3) Save log buttonVerify results are saved in text file.
- (4) Close button Close dialog.

[Data Compare Dialog]

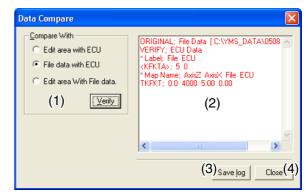


Fig. 37: Data Compare Dialog

5–5 Window

<u>A</u> II	Alt+A	•• Change All displays and Single displays of graph displayed on
		Map screen.
Monitor Dialog		•• Shift cursor to Monitor screen when Monitor screen is being
		displayed.

5–5–1 **All**

Change Graph displayed on the Map screen to All and Single. In the All status, menu checking is made. The same action is taken with F4 also.

5-5-2 Monitor Dialog

Shift cursor to Monitor screen when the Monitor screen is being displayed.

5–6 Help

Open Version dialog to display version information.

[Version dialog]



Fig. 38: Version dialog

