Safety Messages

Your safety and the safety of others is very important. We have provided important safety messages in this manual and on the HRC CBR600RR. Please read these messages carefully.

A safety message alerts you to potential hazards that could hurt you or others. Each safety message is preceded by a safety alert symbol **A** and one of three words, **DANGER**, **WARNING**, or **CAUTION**.

These mean:



You WILL be KILLED or SERIOUSLY HURT if you don't follow instructions.



You CAN be KILLED or SERIOUSLY HURT if you don't follow instructions.



You CAN be HURT if you don't follow instructions.

Each message tells you what the hazard is, what can happen and what you can do to avoid or reduce injury.

Damage Prevention Messages

You will also see other important messages that are preceded by the word **NOTICE**.

This word means:



Your HRC CBR600RR or other property can be damaged if you don't follow instructions.

The purpose of these messages is to help prevent damage to your HRC CBR600RR, other property, or the environment.



All information in this publication is based on the latest product information available at the time of approval for printing. Honda Racing Corporation reserves the right to make changes at any time without notice and without incurring any obligation. No part of this publication may be reproduced without written permission.

Important Information

- This setting tool is sold as is without warranty, and the entire risk as to quality and performance is with the buyer.
- This kit is designed and manufactured to enhance the performance of the CBR600RR, and as is stated in the CBR600RR racing kit set-up manual, should be used only in an organized racing or competitive event upon a closed course which is conducted under the auspices of a recognized sanctioning body or by permit issued by the local governmental authority having jurisdiction.
- This kit is not suitable for use with any other parts.
- Refer to HRC CBR600RR Racing Kit Set-up Manual/Parts List (00X32-N1A-D10 or 00X31-N1A-A10) for service procedures not included in this manual.
- '07 will be displayed on setting tool menu and file name. Peplace '07 with '08 for use on '08 model vehicle.

1

This manual covers the PGM-FI setting procedure by PC communications.

PGM-FI Setting

System requirements and communication attachment

1.System requirements

- IBM AT compatible PC
- OS: Windows 98/Me/2000/XP
- CPU: Pentium 200MHz or higher (recommended)
- Main memory: 32MB or more (recommended)
- Display: 1024 x 768 or higher resolution (recommended)
- CD-ROM: CD-ROM drive is required (The product is provided with a CD-R)
- Serial port: Serial port is required (to communicate with the ECU) If the serial port is not equipped, use USB-RS232C adaptor or USB type serial I/F unit



2.The attachment

- UNIT, ASSY SERIAL I/F: 38880-NL3-750
- UNIT, ASSY SERIAL I/F (USB): 38880-NL9-C00





Use USB driver included in Set-up CD-ROM, or download it from HRC web site (http://www.honda.co.jp/HRC/).

Software Install

1. Put the CD-ROM in the CD-ROM drive and click on the CD-ROM icon.

2. In the window that appears, double-click "SETUP.EXE" to install the application.



3. If you wish to continue, click "Yes".



4. A window like below will appear and prepare for the setup process.



5. To continue the setup, click "Next."

NOTE:

• Exit all other programs before starting installation.



6. When using Windows XP, the User Information window appears. Click "Next."



7. The setup program will ask you to specify a directory to install the application in. If you do not want to change the default directory, click "Next."

	Setup will install 07CBR600KIT in the followi	ng directory.
	To install to this directory, click Next.	
	To install to a different directory, click Brows directory. You can choose not to install 07CBR600KIT exit Setup.	e and select another by clicking Cancel to
	Destination Directory C:\Program Files\07CBR600KJT	Biowse
Instalioneid	< Back Next>	Cancel

8. Select program folder, then click "Next."



9. Confirm the folder and name etc. for installing the application, then click "Next."



10. The installation will proceed.



11. When the installation is completed, click "Finish."



A shortcut link will appear. You may put this link on the desktop.



Operation

Functional Descriptions

When you start up the setting tool, a window like below will appear.



(Note: The figure above, designed for explanation purposes, differs from the actual screen you will see.

No.	Name	Function		
(1)	File menu	Reading and writing the saved setting data.		
(2)	COM Port	Selects communication port (default: COM 1).		
(3)	Data Transmit (read/write)	Transfers setting data from ECU. Transfers setting data to ECU.		
(4)	Help	Displays setting tool version.		
(5)	File information display	Displays information on the setting file.		
(6)	Open File	Reads in setting data saved before.		
(7)	Save File	Saves setting data you have changed.		
(8)	Data Edit Selector	Selects an item to change.		
(9)	Data display area	Displays setting data.		
(10)	Data Read	Transfers setting data from ECU.		
(11)	Data Write	Transfers setting data to ECU.		
(12)	Quit	Exits the program without saving data.		

Before you begin

About the pull-down menu
 Data Edit Selector (No. 8 in the previous table) is a pull-down menu.

Fi Map (number of percent)	-
Fi Map (number of percent)	~
Fi Map (graph mode)	
Fi Map (3D graph)	
IG Map (number of degree)	=
IG Map (graph mode)	- 10
IG Map (3D graph)	_
RU MAP	
Shift Timing Indicator	~

Shuft Luming Inducator	
PIT road Limit	
 Idring Ne	v

Click "▼" as shown in the figure above and a menu will appear. Items to edit can be changed here. The highlighted item will be and may be edited. • When you start up the application for the first time, you will not see the following display.



When you start up the program next time, it will automatically open the last file you used.



In case the default file is not displayed with "Open file," refer to troubleshooting No. 4.

File Menu



"OpenF
"SaveFi

"Quit"

File..." Same function as the "Open File" button. Loading the data file. ile..." Same function as the "Save File" button. Writing the edited data to data file.

Same function as the "Quit" button. Quit setting tool. Before quitting, the setting tool, save editing data using the "Save File" button. If you quit without saving, the editing data will be cancelled.

• Checking communication port (COM port)



Checking system property



Data Transmit Menu



- "DataRead" The same function as the "Data Read" button. Load the data from ECU.
- "DataWrite" The same function as the "Data Write" button. Write the edited data into ECU.

• Help Menu

ile CommPort E2P File File Name Date	DataTransmit 07cbr60 2006/11/22 20	Heip About 0 43:42	Comment Area	-	N K >
Data Edit Fi Map (nurk - Fi Map (nurk	ber of percent) er of percent)	When Help m played	you select nenu, versio	"About" front from the second seco	om th is di
	TH(%)			All area Data ci	bange

U	
	07CBR600Kit FiSetting Tool
	Version: 3.5.0.3
	Copyright (c) 2002-2006 Honda
	(OK

Connection with the Vehicle

1. Connect the "UNIT, ASSY SERIAL I/F: 38880-NL3-750" or "UNIT, ASSY SER-IAL I/F (USB): 38880-NL9-C00" to the serial-port or USB port of your PC.





2. Pull the data link connector (4P red connector) out from the rear fender opening as shown.

Remove the dummy connector and connect the serial I/F 4P (Red) connector to the data link connector.



Note:

- Do not drive your vehicle with the setting cord attached.
 Properly install the dummy connector to the data link (4P Red) connector.

Use the setting cord only when you change settings.

File Operation

Opening a File

Click "Open File" and the window for reading files will be opened. Select the desired file and click OK to load the file.



If the process of Open File is aborted, above message is appeared. Click "OK" to continue.

When reading is correct: Open the setting tool window.

When reading error occurs.

07CBR600Kit Fi Set	tting Tool	×
File Not Found		
(OK		

If the specified E2P file is not found, the above message appears.



If the different base vehicle's model year data is opened, above message is appeared.

Refer to troubleshooting No.5.



If a file format error occurs while reading the E2P file, the above message appears. Refer to troubleshooting No. 6.

Note:

- Displayed file "07cbr600.e2p" is default data.
- If you become confused about settings, return to the standard setting by replacing the revised data with the default data "07cbr600.e2p".

<u>Save a File</u>

When you click "Save File," a list of files already saved will appear and request you to input the file name.

Type a file name and click OK to save your file.

Note:

• The number of characters you may use for a file name is limited to 8 or less.



Note:

 When typing a file name, be sure to put the cursor before ".e2p." If you omit the extension (.e2p), you cannot open it. (It will not be listed.)



OK Button

When the EP2 file is saved:

07CBR600Ki	Fi	Set	ting	Tool	×
File save end	ed				
C	(5K			

The above message appears.

When a file saving error occurs:

file save	. X
	0000000007cbr600.e2p The above file name is invalid.
	()

If you use more than 8 characters for a file name, above message is appeared. To continue "Save File," click "OK" and type in a file name with 8 or less characters.

Cancel Button

07CBR600Kit	Fi Se	etting	Tool	X
File operation	has no OK	t ended	l norma	lly

If the Save File process aborted, the above message appears. Click "OK" to continue.

Changing Setting

<u>Changing TH Segmentation</u> You can change the TH position.



If you click TH segmentation, 60% for example, a scale as shown above will appear. You can change 9 points excluding both ends (0% and 100%). Use your mouse or up/down arrow keys to make changes. Click "Enter key" to enter your change.

To cancel the change, click the "Cancel" key.



You may make changes is only within the zone of the scale. Note:

Changing the TH segmentation changes both the FI and IG maps. The ignition map and the FI map cannot be changed individually. <u>Changing Engine Speed Segmentation</u> You can change engine speed segmentation.



Engine speed segmentation can be changed like TH segmentation. For example, if you click on 10,000 min⁻¹ (rpm), a scale like above will appear. You can change 14 points excluding both ends (0 min⁻¹ (rpm) and 18,000 min⁻¹ (rpm)).

Choose a point to change with your mouse or left/right arrow keys and press the "Enter key" after you put in a new value.

You may make changes only within the zone of the scale.

Changing the engine speed segmentation will also affect the ignition timing. The air-fuel ratio map and ignition timing map cannot be changed separately.

A	Attention Change of NE position changes all EI map 10 map and B11 m
<u>(1)</u>	reconstruct or adapt of the position consider an example and the map, and the

Note:

 TH and engine speed segmentations can only be changed on "Fi Map" screen.

Change Setting Procedure

You can change the air-fuel ratio on either the map screen or on the graph screen.

1. Changing air-fuel ratio (on map screen)

When you select "FI Map (percentage), a screen like below will appear. In order to change data, click on the point where the desired TH position and engine speed.



Then, a scale as shown below will appear.





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Patrice contract of personal					
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0 0% 0% 0%		0%- 0%- 0%-	0%-0%-0%	- 0%- 0%-	0%-1 0%
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-					
	Dets Treamit COMI.		5 <u>50 - 10</u>		
	DataRead	Data Wate	Quit		
			1 10 10		

How to make a proportional change to all data



When you click "All area Data change," the above screen appears. This screen enables you to increase or decrease all data by the same percentage. Click the "Enter Key" to make the change.

<u>2. Changing the air-fuel ratio (graph display)</u> The graph mode presents a horizontal axis map display.



Name	OntoTranso OT.cha 2006/1200	# Helb 600 9.45.30		IN DIE DE AL	**				Űten	Open Sere	Fà					
lap (grap)	mode)															
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2.2	-30%	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000	13000	14000	18000
				Da	e — 001 a Frad	di. 	Deta	Ville		4	út					

When you select the "Fi Map (graph mode)," a screen like below will appear.

To change data, select the TH position you wish to adjust. The current setting will be graphically displayed along with engine speed by TH positions.

Click the engine speed value you want to adjust.

Adjustable areas will be indicated with a color change. Use the up/down arrow keys to make change. It will be reflected in the map display.



When you select "Fi Map (3D graph)," a screen like below will appear.



You can change the graph color and graph size by referring to the instructions on both sides of the graph as shown.

Grayscale: Display with grayscale (cannot select PilotStyle Line).



Single color: Display with the single color (blue).



Line: Display with line only (Color map style will automatically vanish).



Drag:

Drag the graphic while pressing the [Shift] key ([Shift]+Drag).



Zoom in/out:

Zoom the graphic in or out using drag while pressing the [Alt] key ([Alt]+Drag). <u>3. Changing Ignition Timing</u>



You can change ignition timing either on the IG Map or on the IG Map (graph mode).

1. Changing ignition timing on IG Map

When you select "Ignition Map, a screen will appear. To change data, click on the point where the desired TH opening and the engine speed.



Then, a scale as shown below will appear.



How to change ignition timing



How to make a proportional change to all data



When you click "All area Data change," the screen will appear as above. This screen enables you to increase or decrease all data by the same percentage. Click the "Enter Key" to enter the change.

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	DataRead	Data Wate	Quit	
			(a	

<u>Changing ignition timing (graph mode)</u> Graph mode displays a horizontal axis of map display graphically.

e CommPort DataTransmit Help	
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Date 2006/12/17/9/46/30	C Servi File
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40 Odeg- Odeg- Odeg-	Odez-
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20 Odez- Odez- Odez-	Odez- Odez
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	Data Read Data 2960 Quit
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When you select "IG Map (graph mode)," a screen like below will appear.

ra Lit 10 Map (paph mode) 10 Map (paph mode)		[042 [04	r raer ra	4 [Dig]	Ger Fort	Cent Cent	Tobe Tobe	Dag Dag	Disc
0.de;	8 0 1000	2000 30	0 400 5	000 8000	700 800	9000 10000	11000 12000	13000 14000	18000

To change data, select the TH position you wish to adjust. The current setting will be graphically displayed along with engine speed by TH positions.

Here, click the value display of the engine speed you wish to adjust.



When you select "IG Map (3D graph)," a screen like below will appear. You can change the graph color and graph size by referring to the instructions on both sides of graph as shown.



Grayscale:

Display with grayscale (cannot select PilotStyle Line).



Single color: Display with a single color (blue).



Line:

Display with line only (Color map style will automatically vanish).



Drag: Drag the graphic while pressing the [Shift] key ([Shift]+Drag).



Zoom in/out:

Zoom the graphic in or out while pressing the [Alt] key ([Alt]+Drag).



Changing the fuel distribution percentage between the upper and lower injector

When you select "RU MAP," a screen like below will appear. You can change the fuel distribution percentage between the upper and lower injectors.



To make the change, select the upper injector value you wish to adjust. The current setting is graphed out to the engine rev direction by the correction value of the upper fuel injection quantity.

Click the correction value display of the engine speed you wish to adjust.

Adjustable areas will be indicated with a color change. Use your up/down arrow keys to make a change. It will be reflected in the map display.



How to make a proportional change to all data



When you click "All data change," a screen like above will appear. This enables you to increase or decrease all data by the same percentage. The change takes effect when you click the "Enter Key."



Shift Timing Indicator

When you click "Data Edit Selector," the following window will appear. Select "Shift Timing Indicator" from the pull down menu.

• DTCENSDEKH FilSetting Tool File ComPort DataTransmit Heb			
Ell' Fair File Name 07cbr600 Date 2006/12/17 P.45.20	Connect Arts	Open File See File	
	StatTaalig belante 15000 (etaal)		
	Data Tasand COMI Data Read Data Wate	Quit	

ShiftTiming Indicator	1
Fi Map (3D graph)	~
IG Map (number of degree)	
IG Map (graph mode)	100
IG Map (3D graph)	
RU MAP	
ShiftTiming Indicator	
PITroad Limit	
Idring Ne	~

Input the shift point rpm value you want.



The shift timing indicator can be set between the 10,000 to 18,000 min⁻¹ (rpm). Choose the new value with your mouse or left/right arrow keys and press the "Enter key" after you put in a new value. Click the "Cancel Key" to abort the process.

You may make a change only within the zone of the scale.



Pit Road Limit

When you click "Data Edit Selector," the following window will appear. Select "PITroad Limit" from the pull down menu.

07CEIISODKit Fi Setting Tool File ConsPort DataTargent Hep			
E2F78 File Name 07cbr600 Dee 2006/2/179.45.20	Connect Area	Cym Fai Sen Fai	
	- HTind Lini 0 (shua)		
	Dets Travent	Quit	

PITroad Limit	R
Fi Map (3D graph)	72
IG Map (number of degree)	
IG Map (graph mode)	100
IG Map (3D graph)	
RU MAP	
ShiftTiming Indicator	
PITroad Limit	
Idring Ne	~

When you click the cell shown below, the following scale will appear.



Input the rpm you wish for ignition cut off.

The Pit road Limit can be set between the 0 to 18,000 min⁻¹ (rpm). Choose a point to change with your mouse or left/right arrow keys and press the "Enter key" after you put in a new value. Click the "Cancel Key" to abort the process. You may make a change only within the zone of the scale.



Engine Speed Calculation

Engine Speed = Vehicle speed (km/h) x 1,000/60/Tire circumference (m) x Primary ratio x Transmission ratio x Final ratio

Example: (cross ratio transmission, final ratio 16/43) 7.374 rpm = 60 km/h x 1,000 ÷ 60 ÷ 2.0 x 2.111 x 2.600 x 2.687

So the actual engine speed change depends on the circumference of the tire and other factors. Measure each tire's actual circumference and recalculate the vehicle speed.

We recommend you set the engine speed 200 min-1 (rpm) lower than the calculated value.

WE AREN'T SURE WHAT THE ENGLISH IS TRYING TO SAY

Primary ratio: Transmission ratio:

Gear teeth	Ratio
36/76	2.111

Idle Speed (Idling Ne)

	Standard tr	ansmission	Racing kit t	ransmission
	Gear teeth	Ratio	Gear teeth	Ratio
1st	12/33	2.750	15/39	2.600
2nd	16/32	2.000	16/32	2.000

When you click "Data Edit Selector," the following window will appear. Select "Idling Ne" from the pull down menu.

07CERS00Kit FilSetting Tool File CommPort DataTransmit Heb			
ESF File File Name 07cbr600 Date 2004/20199-45-20	Conservations Silvers	Open Fale	
	-Mang lis 2000 (sheat)		
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Idring Ne	•
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IG Map (graph mode)	100
IG Map (3D graph)	- 10
RU MAP	=
ShiftTiming Indicator	- 10
PITroad Limit	
Idring Ne	~

Click the cell shown below, the following scale will appear.



The Idle speed can be set between the 1,400 to 3,000 min⁻¹ (rpm). Choose a point to change with your mouse or left/right arrow keys and press the "Enter key" after you put in a new value. Click the "Cancel Key" to abort the process. You may make changes only within the zone of the scale. The idle speed can be set 200 min⁻¹ (rpm) steps.

NOTE:

The actual idle speed may differ from setting data due to the machine's configuration or condition.



Transferring Setting Data

Transmitting data (PC to ECU)

GTODISOBILITY Setting Text File Construct DataTarcest Hep Elle Fai- Elle Fai- Elle Const 07cbr000	
Non Description Control Test 648	
20 00-1 00-1 00- 20 00-1 00-1 00- 31 00-1 00-1 00- 0 00-1 00-1 00-1 00-	lowing window will appear.
0 F1306 F2005	200 Fee: 100

07CBR600Kit Fi	i Setting Tool 🗙
Ignition	Switch Off
ОК	キャンセル

When you click "OK," the following window will appear. Turn the engine stop switch OFF, click "OK". The following window will appear.



Turn the engine stop switch ON, click "OK" within 2 seconds.

O7CBR600Kit Fi Setting Tool X ECU Data Read ended. If the communication is correctly completed, the following window will appear, then turn the engine stop switch OFF. If communication is not performed correctly, the following window will appear. Check connection and communication settings and retry communication clicking "Data Write" again.



When the data for a different year is written, the following window will appear.

07CBR6	iOOKit Fi Setting Tool 🗙
8	ECU Data Type is incorrect.
	OK OK

After tranferring the data, disconnect the UNIT, ASSY SERIAL I/F from the vehicle.

Receiving data (ECU to PC) By clicking "Data Read," you can retrieve setting data from ECU.

07081809Kit FilSett a ComePort DataTrans	ine Tool alt Heb					_		
Elf Faie File Nume 07cb Date 2006/12/1	r600 994530	Consent Area		0.00	Open File Seen File			
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Fi Map (analyst of percent)	100						_	
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		Data Traunut — CC Data Read	Duta	Wate	Quit			

Follow the same procedures used for Data Write and the screen will appear as below.



Troubleshooting

No.	State	Cause	Action to take
1	Unable to install	Don't know how to operate	*refer to 1
		CD-ROM drive does not recognize	Make the drive recognized and try installation again
		Defect of CD-ROM (deep scratch, etc.)	Please contact HRC service.
2.	Unable to run the tool	Unsupported OS	This tool runs on windows 98/Me/2000/XP.
3.	Unable to com- municate with ECU	The serial port setting incorrect	*refer to 2
		Power supply of ECU is turned off.	Check battery connection. Check battery charging condi- tion
		Incorrect serial interface con- nection	Check connection (Refer to the page on connection with the vehicle)
		Incorrect data transmit timing	Push the return key and trans- mit the data within 2 seconds after the engine stop switch is turned ON.
		Data read out from ECU can- not be transmit- ted.	The retrieved data cannot be retransmitted as it is. In order to transmit retrieved data, you should save it once. (Refer to the page on data reception)
4.	Default file is not displayed when starting up first	A same problem occurs with the English version.	*refer to 3
5.	Wrong ECU data	Different model year's E2P data is opened.	Check model year, select the correct model year file.
		Does not match setting tool dis- play and vehi- cle's model year.	Check vehicle's model year, select the correct setting tool display (07CBR600 only).
6.	Wrong file for- mat	Broken reading E2P file.	Please contact HRC service.

*1: CD-ROM drive



*2: How to check serial port



If you click on the My Computer icon, a window will appear. Click the CD-ROM drive in the window and installation will start.

If no CD-ROM icon is displayed in the window, your PC might not be equipped with the CD-ROM drive or is not recognizing one.

Consult the instruction manual of your PC to confirm this.

Click "View system information" in the System Tasks.

Windows XP

System Properties window will open.



?× Read file select File name: Folders: OK c:\progra~1\07cbr6~1 .e2p Cancel Do:\ PROGRA~1 Network 07CBR6~1 F Read only Normally 07CBR600.e2p is displayed as ~ default, however it's not displayed in this List files of type: Drives: picture. E2P(*.E2P) -_

Countermeasure : Open the directory including the tool, and change the file name.



Select "07Cbr6_a.e2p" and change the file name. For example, change the file name 07Cbr600.e2p to 07Cbr6_1.e2p." The file name is not acceptible if the name includes 8 letters or less. Now you can open the file.

*3: In case you open "Open File" when starting up for the first time.





(1) TURN SIGNAL SWITCH (PIT ROAD SPEED LIMIT)

Turn Signal Switch Function

This machine is equipped with Pit Road Speed Limiter. The turn signal switch is used for this function.

To operate, push the turn signal switch to the right or left.

(1) INDICATOR

The indicator on the combination meter lights when the pit road speed limiter is activated.

To cancel the pit road speed limiter, push the turn signal switch in, and the indicator will go off.

See page 23 for pit road speed limiter setting.