Operation Manual

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ECU Field Rewriting



ECU Field Rewriting Operation Manual

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FORWARD

This operation manual is published for the information and guidance for ECU's field rewriting. We earnestly look forward to seeing that this manual is made full use of in order to perform correct ECU's field rewriting.

OCTOBER 2007

1. APPLICABLE ECU AND SERVICE WORKS

♦ Applicable ECUs and Service Works 1-1

Some pieces of information such as vehicle ID and equipment specifications are stored in an onboard ECU after being converted into encrypted coding data. In the earlier models, those sets of coding data have been loaded into the spare ECUs. In the later models, you should load those sets of coding data into ECUs in the field. Loading the coding data is referred to as "ECU Field Rewriting".

The applicable ECUs for which data should be rewritten and each service work for that operation are shown below:

1. Applicable ECUs and Service Works

ECUs that require "ECU Field Rewriting" and their coding are summarized in the following tables for each country.

• For U.S.A.

Models marked with a circle indicate applicable ECUs.

ECU Vehicle model	Engine ECU (engine control)	MVCU (vehicle combined control unit)
EPA07 CANTER	0	0
EPA07 FK/FM	0	0

Works marked with a circle indicate that the applicable data rewriting is required during the works.

ECU		Engine ECU					
Coding data Work item	VIN code	Injector correction data	Injection quantity correction data	Air flow sensor characteristics data	PTO idle rpm data	Ash accumulation volume data	SLD limited speed data
Replacement of ECU	0	0	0	0	0	0	
Replacement of injector		0					
Change of PTO idle rpm					0		
Replacement of MVCU							0
Change of SLD setting							0

• For Singapore

Model	5011	Field rewriting	Codin	g data	Demode
	ECU	Not required: ×	When ECU replacement	When Injector replacement	Kemarks
FP.FV.FS (Euro4)	6M7	0	(1), (2)	_	(1) Air flow sensor code
	MVCU	0	(3), (4)	—	(2) Air M/V control code (3) SLD code
CANTER (Euro4)	4M4	×	—	—	(4) Powertard control code(5) Injector correction code
FK.FM (Euro4)	6M6	0	(1), (5), (6)	(5)	(6) Q-Adjustment (7) Cruise control code
	MVCU	0	(3)	_	

• For Hong Kong

	5011	Field rewriting	Codin	g data	Demorte
Model	ECU	Not required: V	When ECU replacement	When Injector replacement	Remarks
FP.FV.FS (JP05)	6M7	0	(1), (2)	—	
	MVCU	0	(4), (7)	—	(1) Air flow sensor code
CANTER (Euro4)	4M5	×	*1	_	 (2) All W/V control code (3) SLD code (4) Powertard control code
ROSA (JP05)	4M5	×	—	—	(5) Injector correction code(6) Q-Adjustment
FK.FM (JP05)	6M6	0	(1), (5), (6)	(5)	(7) Cruise control code
	MVCU	0	(7)	_	

Remarks (*1) :

As for CANTER EURO-4 for Hong Kong, "VIN writing" only is required when Engine ECU is replaced with new one. Therefore, downloading/uploading is not required.

Please see the Shop Manual for the details.

• For Australia / New Zealand

Model	FCU	Field rewriting	Field rewriting Coding data		Remarks	
Model	200	Not required: ×	When ECU replacement	When Injector replacement		
FP.FV.FS	6M7	×	—	—		
(EPA04)	MVCU	0	(3), (4), (7)	—	(1) Air flow sensor code(2) Air M/V control code	
CANTER (EPA04)	4M5	×	_	—	 (3) SLD code (4) Powertard control code 	
ROSA (EPA04)	4M5	×	_	—	(5) Injector correction code	
FK.FM.FN (EPA04)	6M6	×	_	_	(6) Q-Adjustment(7) Cruise control code	
	MVCU	0	(3), (7)	_		

For details of the rewriting procedure, see Section 5 "MUT-III OPERATION".

2. GENERAL DESCRIPTION OF WORK



General Description of Work

This section describes the procedure for ECU field rewriting. First you need to obtain the required ECU data, password, and reference number from the Data Server. This operation is referred to as downloading. The downloaded data should be stored on a removal disk such as USB memory and then loaded into ECU via MUT-III. This operation is referred to as ECU field rewriting. Finally, you should load the data in ECU onto the Data Server. This operation is referred to as uploading. ECU field rewriting ends with uploading. Note that you may not perform the next ECU field rewriting if you fail to perform uploading the data.

At Office (See Section 4 "DATA SERVER OPERATION".)

Downloading

Internet-connected PC

- (1) Insert a USB memory stick into a slot of the PC.
- (2) Run Internet Explorer and access the Data Server login window.
- (3) Log into the Data Server.
- (4) Select the chassis number, ECU type, and item for ECU to be rewritten.
- (5) Download ECU data and store it in the USB memory.
- (6) Make the note of "Reference number" and "Password" or print the window as it is for the ECU rewriting.
- (7) Remove the USB memory from the slot of PC.

Uploading

Internet-connected PC

(1) Insert a USB memory stick into a slot of the PC.

- (2) Run Internet Explorer and access the Data Server login window.
- (3) Log into the Data Server.
- (4) Select "History upload" option and then select the required file in the USB memory.
- (5) Wait a few seconds until the transmission to the Data Server ends.
- (6) The data uploaded to the Data Server is shown on the PC screen. Check the data and select the OK button to complete "History upload".
- (7) Log out the Data Server.
- (8) Remove the USB memory from the PC slot.



At Workshop (See Section 5 "MUT-III OPERATION".)

•ECU rewriting

Use the MUT-III.

- (1) Insert a USB memory stick into a slot of the PC for MUT-III and boot up the PC.
- (2) Copy data in the USB memory to the PC.
- (3) Select "Coding Menu" for rewriting.
- (4) Enter the "Password" and "Reference number" transferred from the Data Server window.
- (5) Select the rewrite mode (Manual or Automatic).
- (6) Enter a work note in the "Memo" field as required.
- (7) Check the rewrite data and start rewriting if it is acknowledged, and wait until the rewriting is complete.
- (8) Check the "Writing Result" and select the OK button if it is acceptable to end the rewriting.
- (9) Shut down the PC for the MUT-III and remove the USB memory from the slot.



3. PREPARATION

•	Devices	 3-1
•	License	 3-1

To perform ECU rewriting, you need to prepare devices and obtain the right to access the Data Server.

1. Devices

No.	Item	Explanation
1	MUT-III hardware	The following hardware devices are required. These hardware devices are the same
		as those required for the MUT-III diagnostic tester.
		PC for MUT-III
		• VCI (MH062927)
		• USB cable (MH063668)
		Harness E (MH063661)
2	MUT-III software	The software version FMS-E07-1 or above is required.
3	Removable disc	It's required for transmitting the ECU data between PC for MUT-III and PC
	(USB memory etc)	accessible to the Internet.
		The folder "CodingData_EOL" should be created in USB memory before loading
		data.
4	PC accessible to	It's required for download and upload to Data server.
	the Internet	The Internet Explorer, version 5.5 or above, is required.
		The Antivirus software is recommended.

2. License

To "prevent unauthorized modification" and "secure correct operation", users need to be registered and obtain user IDs and initial passwords in advance to access the Data Server.

(1) Registering a user ID

Each user needs to notify the following information to MFTBC via the distributor. In a few days, the user will be registered and the user ID and initial password will be informed to the user via the distributor. 1) User name

- 2) Email address
- 3) Company name
- 4) VCI serial number used

(2) Password management

a) At initial logon

At initial logon, the user needs to change the password. The user cannot access the Data Server until he/she changes the initial password.

b) Changing the password

The following rules should be observed to change the password:

- Use alphanumeric characters (case sensitive) and/or symbols.
- Use at least six characters.
- Use at least one uppercase letter, at least one lowercase letter, and at least one digit.

c) Password expiration date

A password is expired 30 days after the change of the password. You should change the current password after the expiration date of 30 days.

d) If you forget your password
 You have to notify MFTBC via the distributor to reset your password.

(3) Management of user ID

Please notify unnecessary user ID (which is no longer used) to MFTBC via the distributor without delay.

4. DATA SERVER OPERATION

•	Access to Data Server	• 4-1
٠	Rewriting Data Request (Download)	• 4-5
٠	Registering ECU Data (Upload)	4-10
٠	Quitting Rewriting	4-14
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•	Preparatory Works for Engine Replacement	4-22

Access to Data Server

(1) Run the Web browser.



(3) The login page to the system is displayed.



(5) The system top page is displayed, the preparation for the work completed.



• At the time of the first login or when 30 or more days have passed after password change



(3) The system top page is displayed.



Important: Notes on password change

When a password is to be changed, set it following the following rules.

- Half-size alphanumeric characters (case-sensitive) can be used.
- Set at least six characters.
- Use one or more upper-case alphabets, one or more lower-case alphabets, and one or more numbers.
- Change to the same password as the current one is invalid.

Window: Top page

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		Makes it possible to download and history-register written data.			
►History search	Makes it possi	ces it possible to view the history of vehicle rewriting.			
Configuration share	~~				
Conliguration chan	Makes it possible	Makes it possible to change engines during engine modification and to register link engine data.			
►User control	Makes it poss	lakes it possible to change passwords.			

Rewriting Data Request (Download)

Window: Top page

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	History upload	ECU rewriting history is registered on server.	
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Window: Selecting rewriting work

Window: Vehicle selection

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Window: ECU selection

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► Please select an ECU.					
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S EBO8 MVCU			EB08Y002	MK543138	
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Window: Selecting items to be rewritten

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Window: Download

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Important: Notes on downloading

- The Save as ... window appears with the default file name specified. Save the file without changing the file name. (MUT cannot recognize any other file name.)
- When downloading files, confirm that a password is displayed next to the "Download" selected.
- After downloading is complete, be sure to make the note of the reference number (Inquiry number) and password or select the menu option "File" and then "Print" to print the screen.

Registering ECU Data (Upload)

Window: Top page

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Window: Selecting rewriting work

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Window: Selecting history registration method

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PFLX(D) Intro-Medication/PR010301.do Image: select the method to update history. (3) Select Upload.
ECU field rewrite network(Practice enviroment)
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Upload :History registration when rewriting file from download is used. Important: Notes on selecting update method - When rewriting is done, select "Upload". - When rewriting is not done, select "Stop Writing". - Because "History Registration" is prepared for writing without getting a
manufacturers), do not use it.

Window: Selecting history file

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	(5) When all files are selected, select OK.	Statistics 7+14445 Mill J000007-ARLeav Statistics 7+144455 # OK CANCEL
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Important: Notes on upload

- Data with the same reference numbers can be collectively uploaded.
- If files with different reference numbers are registered at the same time, or an attempt is made to register data that has already been registered, an error occurs. Select another history file or cancel the registration and then re-select OK.

Window: Checking registered data

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Window: Registration end

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Quitting Rewriting

Window: Top page

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Window: Selecting history registration method

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Window: Entering reason for quit

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[Rewriting work]	(4) Enter a reference number.	
Reference number	1000026C DATAID A301 (5) Enter a DATA ID	
Reason for canc	eling::	
レ で Do で Th マ Re	writing was done by mistake. e rewriting work period (for three days) was over. writing was unnecessary. (6) Select th	e reason for cancelling.
Postscript / Oth	er reasons::	
	(7) Enter an and addit	iy other reasons tional items.
Notes on register - If you forgot th the list of proce	ering rewriting cancel le reference number and DATA ID, check ssing in progress on the top page.	(8) Select OK.
Done		ler rocannuranet

Window: Checking registered data

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LOGOUT
OK CANCEL
(9) Check the data, and if there
is no problem, select OK.
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Window: Registration completion

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	1000026C A301	
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		(10) Select OK to complete the
		registration cancelling.
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Rewriting History Search

Window: Top page

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[History se ▶ Plea	earch] se input the referen	ce condition.			
		WMI	VDS	VIS	
Select the	> 💿 Chassis numl	per	Model	Number	(3) Enter the conditio
to specify.	O ENGINE	Engine model	Engine number		
		R ECU type DOM-Common-rail	(4M)	Serial number	-
		IT Supplier name Bosch	Serial number of the	writing device Writing o	lay (YYYYMMDD)
				(4) Select	Search.
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Window: Displaying search results

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[History se	earch]								
	History search res	ult							
	Vehicle production history						Detail		
	VIN (Chassis numbe	r) FP50JD-05934	27						
	Type classification	FP50JDR4C7						٦ I	
	Model	FP50JD			Displays	c c	complete		
	Notification type								
	Chassis number	593427			vehicle o	lata.			
	Engine	6M70-999938							
	Complete exar	nination date	Shipping date		Sales	s date			
	Engine exchange history						Detail		
		Engine model	Model	Engine i	number	Registrati	on date	\sim	
	Production history	6M70	6M70	999938		2007	0115		טוא Displays engine
	Latest	6M/U	6M/U	999938		2007	0115		data.
	ECU exchange history								
			ECU hardware part number	ECUSerial num	nber Regist	ration date	EOLDetail	Disp	lays rewriting history.
	Common-rail	Production history	MK526658	44169265	200701	15	Detail		
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When two or more vehicles meet the conditions



Notes on each data display

- Only the display of rewritten histories is supported.
- Detailed display is to be supported by obtaining complete vehicle, engine and transmission data or by link.

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Window: Displaying ECU details

The rewriting history from the production to the current is displayed.

history	Airflow Sensor Charac	teristic No./SCR Characteristic No.	
Reference	Writing value	FINGER PRINT	Reason for cancel
1000026B	0000	0003 35453525 20070116213238	
10000257	0000	0003 35453525 20070115204816	000000000
10000255	0000	0003 35453525 20070115201741	
00000000	0000	0003 35453525 20060806021334	

Preparatory Works for Engine Replacement

When replacing an engine in a given vehicle, you need to load new data particular to each engine such as injector type into the engine. After one of the following operations has been performed, do the works as indicated in the following pages before downloading the ECU data.

Major operations:

- Replacing an engine with new
- Transferring an engine from another vehicle

Window: Top page

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Welcome you, Mr (Ms	s) Export User01.	
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2006/12/22	It is a test of outside link setting.	
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2006/12/22	I showed a test site.	
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Configuration ch	nange :Refer Rewriting work is engine exchange is performed.	
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	(1) Select Configuration	7
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Window: ECU detail display

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ECU field rewrite network	
[Configuration change]	
Please select the content of configuration change.	
(2) Select Engine	
Engine exchange	
exchange.	
Regenerative engine data input :Chan lged mommation is registered when c onfiguration change by using regenerative engine was performed.	
Home :Return to Home	
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Window: Entering vehicle information

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FUSO	ECU field rewrite network	LOGOUT	*
[Configuration change]			
Please input the ve	nice information to exchange engine.		
VIN	WMI VDS VIS		
VIN	- F134047 - J33320		
	(3) Enter VIN of the vehicle whose		
	engine has been replaced.		
	(4) Select OK.		
	U OR	CANCEL	
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Window: Entering engine information

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gatess http://ds-108:900/fss/PR030101.do Image: Configuration change ECU field rewrite network LOGOUT Configuration change] • Vehicle information to exchange engine VIN • VTS VIN • FT54JWZ • Please input the new engine information. ENGINE Engine model @MZ (5) Change the engine model, if required. (6) Enter the engine number. (7) Select OK. When the Configuration change window appears, the later engine model and number are displayed. (7) Select OK.	🌣 Back 🔹 🔿 🔹 🙆 🙆 🥘 Search	👔 Favorites 🛞 Media 🎯 🛃 - 🎒	
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WMI VDS VIS VIN - FT54JWZ 593526 • Please input the new engine information. Engine model Engine model MT Image: Comparison of the engine model, if required. (5) Change the engine model, if required. (6) Enter the engine number. (7) Select OK. (7) Select OK.	[Configuration change]	exchange engine	
Please input the new engine information. ENGINE Engine model @M7 Engine number A00038 (5) Change the engine model, if required. (6) (6) Enter the engine number. When the Configuration change window appears, the later engine model and number are displayed. (7) Select OK.	VIN	WMI VDS VIS - FT54JWZ - 593526	
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(5) Change the engine model, if required. (6) Enter the engine number. (7) Select OK. (7) Select OK.	ENGINE	Engine model 6M7 0 Engine n	umber A00038
OK. OANCEL	When the Configuent of the model and the mod	(5) Change the engine model, if required. (6) uration change window appears, the late number are displayed.	Enter the engine number.
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Window: Entering engine information

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	FUSO		ECU field rewrite	network		
C	Configuration	n change] ration is changed v	with the following content. Click on 'OK' bu	ton if it is fine		
		allor to changea t				
	► Vehicle i	information to exch	nange engine			
	v	/IN	WMI VDS - FT54JWZ - 55	VIS 93526		
	► New eng	jine				3) Confirm that the
	E	NGINE	Engine model 6M7 0	Engine number A00038		chassis number
					_	and engine number are correct.
				A		
M c	onfirm tha	at correct VI	N and engine number are	displaved.		
If	an incorr	ect number	is found select CANCEL	and enter your	\neg	
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Window: Completion of registration

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[Configuration chang	e]	
The registration of	configuration change is complete.	
► Vehicle informat	on to exchange engine	
VIN	WMI VDS VIS - FT54JWZ - 593526	
► New engine		
ENGINE	Engine model 6M7 0 Engin	e number A00038
This completes replacement en Now, you can g using the norma	the preparation for getting new da gine. et data to be loaded to replacement e I procedure for getting write data.	ata for the engines by
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5. MUT-III OPERATION

•	Notes	5-1
٠	List of Service Works	5-2
٠	File Transfer (MUT-III⇔Removable Disk)	5-4
٠	All Data Writing	5-8
٠	Injector Data Writing	5-14
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٠	SLD Limited Speed Writing	5-27
٠	Ash Data Writing	5-33

Remarks:

This document is quoted from the MUT-III Instruction Manual which comes with the MUT-III Software. Refer to the MUT-III Instruction Manual if you have any questions.

Notes

1. Common check items

The following conditions are not prerequisite for rewriting ECU data. But it is recommended to meet the following requirements when ECU data rewriting is performed for the sake of safety:

- Engine stopped
- Vehicle stopped
- Gear placed in the neutral position and parking brake applied
- Normal battery voltage (24 V-vehicle: terminal voltage 20 V or higher desirable)

(12 V-vehicle: terminal voltage 10 V or higher desirable)

2. Requirements for ECU data rewriting

The following requirements must be satisfied to perform ECU data rewriting.

ECU	Requirements for rewriting (all must be satisfied)	Error code (*1)
Bosch	(1) Key switch ON	Communication error (22)
	(2) Engine speed = 0 rpm	
	(3) Vehicle speed = 0 km/h	
OWIT ECO	(4) Gear position: neutral or parking	
	(1) Key switch ON	Communication error (22)
DENSO	(2) Engine speed = 0 rpm	
6M6 ECU	(3) Vehicle speed ≤ 1 km/h	
	(4) Data writing not in progress	
	(1) On the MUT-III, select the write target system and press the	Communication error (22)
	write execution key.	Diagnostic code
	(2) Ignition switch: ON (main power supply: higher than 4 V)	P1007 (ECU error)
	(3) Auto cruise inoperative	P1009 (writing not complete)
MVCU	(4) SLD inoperative	
	(5) Vehicle speed: Less than 3 km/h	
	(6) Engine speed: Less than 400 rpm	
	(7) ECU power supply: Higher than 8 V (both battery power and	
	main power)	

(*1): Error code that is displayed on the MUT-III if an error occurs in the ECU during data rewriting. As communication error is automatically displayed, the ordinary MUT-III diagnostic procedure is necessary for the diagnostic codes.

3. Work to be done after rewriting

After engine ECU data is rewritten, the diagnostic codes stored in the ECU and MVCU should be cleared. Failure to clear the diagnostic codes will cause an ECU communication error.

List of Service Works

The MUT-III operation is described separately for individual service works. Each number in parentheses indicates the applicable document in the following pages.

• For U.S.A.

Mortes	EPA07 CANTER		EPA07 FK/FM		Deferment Manual	
vvorks	4M5 ECU	MVCU	6M6 ECU	MVCU	Reference Manual	
Common works	(1)	(1)	(1)	(1)	(1) File Transfer	
Replacement of ECU (*1)	(2), (6)	(2)	(2)	(2)	(MUT- III to/from Removable Disk)	
Replacement of Injector	(3)	_	(3)	_	(2) All Data Writing(3) Injector Data Writing	
Change of PTO idle rpm	(4)	_	(4)	_	 (4) PTO Idle speed Writing (5) SLD Limited Speed Writing 	
Change of SLD Limited speed	_	(5)	—	(5)	(6) Ash Data Writing	

• For Singapore

Works	FP.FV.FS (EURO-4)		FK.FM (EURO-4)		Deference Menuel	
WOIKS	6M7 ECU	MVCU	6M6 ECU	MVCU	Relefence Manual	
Common works	(1)	(1)	(1)	(1)	(1) File Transfer	
Replacement of ECU	(2)	(2)	(2)	(2)	Disk)	
Replacement of Injector	_	_	(3)		(2) All Data Writing(3) Injector Data Writing	

• For Hong Kong

Worko	FP.FV.F	S (JP05)	FK.FM	(JP05)	Poference Menuel
WORKS	6M7 ECU	MVCU	6M6 ECU	MVCU	Relefence Manual
Common works	(1)	(1)	(1)	(1)	(1) File Transfer
Replacement of ECU	(2)	(2)	(2)	(2)	Disk)
Replacement of Injector	_	_	(3)	_	(2) All Data Writing(3) Injector Data Writing

• For Australia / New Zealand

Monto	FP.FV.FS	(EPA04)	FK.FM.FI	N (EPA04)	Deference Menuel
VVOTKS	6M7 ECU	MVCU	6M6 ECU	MVCU	Reference Manual
Common works	_	(1)	—	(1)	(1) File Transfer
Replacement of ECU	_	(2)	_	(2)	(MUT-III to/from Removable Disk)
Replacement of Injector	_	_			(2) All Data Writing

Remarks (*1):

As the following two cases are assumed when EPA07 CANTER ECU for U.S.A. is replaced, determine the case considering the work characteristic.

<Case 1>

- (1) Select manual input of coding function Ash of MUT.
- (2) Read Ash data from the old ECU (before replacement).
- (3) Replace ECU.
- (4) Write Ash data to a new ECU (after replacement).
- (5) Select automatic input of coding function All of MUT.
- (6) Remove check of Ash in coding Item and write data.

Demerits

- If you fail to un-check in Ash, you need to read Ash from old ECU.
- You must replace ECU during rewriting work.

<Case 2>

(1) Select information of coding function Ash of MUT and memo Ash data (6 digits).

(2) Replace ECU.

- (3) Select automatic input of coding function All of MUT and write all data.
- (4) Select manual input of coding function Ash of MUT and write the memo Ash.

Demerits

- It takes time to write a memo.
- Manual input is required.

(1) File Transfer (MUT-III⇔Removable Disk)

<men< th=""><th>u Window></th><th>alt Internet Funktion - DV2542701</th><th>Ω.</th></men<>	u Window>	alt Internet Funktion - DV2542701	Ω.
	Menu	<u> </u>	(1)
	System selec	st	Special function
	- Canadiana		
Prevasel select			



• Press "Special Function" button (Window 1: (1)) to proceed to the System Function Window (Window 2).

<sys< th=""><th>stem Function</th><th>Windov</th><th>W></th><th></th><th></th></sys<>	stem Function	Windov	W>		
Special Fu	unction - Microsoft Internet Exp	kirer - 199543	の推測		
		100	Special Functi	on	N4020000
\square	System function	\checkmark	Measurement func	lon	
	Drive Rec	order	(1)	V.C.I. Stand-alone Diagnosis (Data transfer to PC-card)	
	Coding Data Ma	nagement			
Trainer for	ertion.				
1	1 È		2		



• Press "Coding Data Management" button (Window 2: (1)) to proceed to the Coding Data Management Window (Window 3).

Codi	ng Data Ma	nagement Nid	10200230
ystem function Coding Data Management	(1)		
Data transfer to PC		Data transfer to Removable disk	T
Inclin			

<Coding Data Management Window>

Window 3

• Press Function button to proceed to the following windows.

Function button name	Next window	Remarks
Data transfer to PC	Drive Select Window	Transfer data from removable disk (USB
(Window 3: (1))	(Window 4)	memory, etc.) to MUT PC.
Data transfer to removable disk	Stored File List Window	Transfer data from MUT PC to removable disk
(Window 3: (2))	(Window 6)	(USB memory, etc.).

Coding Data Managemen	t N402002
System function Coding Data Management Data transfer to PC	(1)
Onvelis	
D/Removable disk	
	*
-	
lease select the drive that you save and press the save button.	
1 L S 2 E.	
	(2)
Window 4	

<Drive Select Window>

- Select removable disk (Window 4: (1)) which contains data from Drive List.
- Press "Transfer" button (Window 4: (2)) to proceed to the Inquiry Number Input Window (Window 5).

	Inquiry i	number							.(1)	
0	,	2	3	4	5	6	7	8	9	
A	в	с	D	E	F	G	н	1	J	
к	Ŀ.	м	N	o	P	۹	R	s	т	
U	v	w	x	Y	z					¥.
								Space	Back Space	Clea
ut the log	ling number th	et you got from	the EOL serve	t.	_	al				

<Inquiry Number Input Window>



- Enter inquiry number of transferred data in Inquiry Number Input Field (Window 5: (1)) from the keyboard of MUT Screen or PC main unit.
- Press OK button (Window 5: (2)) to transfer all files that match the entered inquiry number to MUT PC.

d Data Nanaerment - Nicrosoft Inter Coding Data Management System function / Coding Data Management / Data transfer to Removable disk File name nquiry num MIN Date System nam Coding item 2007/03/ LIT_10000039_A601 000003 ENGINE Ash Accumulation Amour 2007/03/05 UT_10000039_A401 1000003 ENGINE PTO Idle Speed 2007/03/05 1000003 ctor of Cylinder 1 (TWV UT 10000039 A101 4 ENGINE 2007/03/05 10000039 JL6CCG1S97K00555 10000039_F1A0.0 ENGINE VIN 2007/03/05 000003 JL6CCG1S97K0055 ENGINE OL 10000039 A301 or Chars LBCCG1S97K005 ENGINE Q Adjustment No. 2007/03/05 10000039_A201 000003 E 1 1 ? (1) (2) Window 6

<Stored File List Window>

• All files stored in MUT PC are displayed.

File name	Display contents
EOL_~~~.csv	Writing file to download from EOL server.
MUT oov	History management file to upload to EOL server.
	(Automatically created when writing is performed in MUT)

<To transfer a file to removable disk>

- Select a file to transfer. (Check the checkbox on the left.)
- Press OK button (Window 6: (1)) to proceed to the Drive Select Window (Window 7).
- <To delete a file>
- Select a file to delete. (Check the checkbox on the left.)
- Press "Delete" button (Window 6: (2)) to delete a file after Confirmation Window is displayed.

<Drive Select Window>

	Coding Data Mana	gement	N402
ystem function / C	oding Data Management 🖊 Data transfer to Rer	movable disk	
	DrivoList		
		(1)	
	()/Removable disk		
		-	
	L		
s salect the drive that you a	we and press the save button.		_
1 L	S 2 B	Some data. Set extraction condition and asymptotication data in a file.	

- Select a removable disk (Window 7: (1)) to save data from Drive List.
- Press "Save" button (Window 7: (1)) to copy the selected file.

(2) All Data Writing

	ENGINE	
RTRAIN ENGINE		
Self-diagnosis	Data List	Actuator Tes
Drive Recorder	OBD-II Test Mode	Voltmeter
Resistor (1	ECU Information	ECU Reset
Coding	Combination Actuator Test	

Window 1

• Press "Coding" button (Window 1: (1)) to proceed to the Coding Menu Window (Window 2).

VIN Q Adjustment
VIN Q Adjustment
Q Adjustment





• Press "All Data" button (Window 2: (1)) to proceed to the Coding Submenu Window (Window 3).

POWERTRAIN ENGINE Coding (1	ling N40	101572
All Data Writing	All Data Information	
ase select function.		

<Coding Submenu Window>

Window 3

• Press each Function button to proceed to the following windows.

Function button name	Next window	Remarks
All Data Writing (Window 3: (1))	Password Input Window (Window 4)	Write all coding data to ECU.
All Data Information	All Data Display Window	Confirm coding related data which is written in
(Window 3: (2))	(Window 11)	ECU.



	Pass	word	_						(1)
0	1	2	3	4	5	6	7	8	9	
A	в	с	D	E	F	G	н	1	J	
к	L	м	N	0	P	Q	R	s	т	
U	v	w	х	Y	z					Ŷ.
								Space	Back Space	Clea
ut the pas	ssword got from	n the EOL serv	er.			-				

- Enter password obtained from EOL server into Password Input field (Window 4: (1)) from the keyboard of MUT Screen or PC main unit.
- Press OK button (Window 4: (2)) to proceed to the Inquiry Number Input Window (Window 5).

	Inquiry r	number							(1)	
0	1	2	3	4	5	6	7	8	9	
A	в	с	D	E	F	G	н	1	J	
к	L	м	N	o	P	Q	R	s	т	
U	v	w	x	Y	z					١
								Space	Back Space	Clear

<Inquiry Number Input Window>



- Enter inquiry number obtained from EOL server into Inquiry Number Input field (Window 5: (1)) from the keyboard of MUT Screen or PC main unit.
- Press OK button (Window 5: (2)) to proceed to the Data Input Method Select Window (Window 6).

ENGINE Coding	All Data Writi		
		Input method of data	
	No.	Name	
	1	manual input	(1)
	2	automatic input	
-			
-		1	
L.	-	4	
Please select input method of data.			
1 L	\$	2	×
		(2)	

<Data Input Method Select Window>

• Select "Automatic Input" (Window 6: (1)) and press OK button (Window 6: (2)) to proceed to the Coding Contents Confirmation Window (Window 7).

			Writing details		
Select	No,	Coding Item	Coding Data	Merno	
~	1	VIN			
~	2	Injector of Cylinder 1 (TWV1)			1
~	3	Injector of Cylinder 2 (TWV5)			
~	4	Injector of Cylinder 3 (TWV3)			
~	5	Injector of Cylinder 4 (TWV6)			
~	6	Injector of Cylinder 5 (TWV2)			
ogramm	ing Date	(Year/Month/E '07/02/28	Sérial Number	0000326	1
inputting a	ill coding i	tems, please press the OK button. VIN:*******	*****		

<Coding Contents Confirmation Window>



- The writing target item related to diagnosis is displayed. (The coding data is automatically read from a file and displayed.)
- Uncheck coding Items which are not written.
 (All coding Items are checked by default.)
- Press Input Window Call button (Window 7: (3)) to enter "Memo". (The input of work memo is optional and it needs not be entered.)
- Confirm the writing contents (Window 7: (1)) and press OK button (Window 7: (2)) to display Now Writing Window (Window 8) after Writing Confirmation Window is displayed.

<now< th=""><th>Writing</th><th>Window</th><th>/></th><th></th></now<>	Writing	Window	/>	
		Million .		
٩	All Data	Writing		
	Now writ	ing.		
-				



• When writing is completed, Writing Complete Window (Window 9) is displayed.

MUT-III OPERATION

<Writing Complete Window>

•	All Data	a Writing			
	Writing th	he coding	data has	been co	mplete.
	/				
)					

• Press OK button (Window 9: (1)) to proceed to Result Display Window (Window 10).

	Writing Result		K		
Coding Itom	Coding Data F	Programming Date (Ve	Writing tool Information		
County nem		In regramming bate (re	Tool ID	Serial Number	
Injector of Cylinder 1 (TWV1)	9F 00 00 CA 00 E2 00 00 09 ED 00 00 00 00 53	'07/02/28	0085	00003261	
Injector of Cylinder 2 (TWV5)	9F 2F 00 00 00 00 14 00 09 00 00 00 00 00 AD	'07/02/28	0085	00003261	1
Injector of Cylinder 3 (TWV3)	9F 00 00 00 00 00 17 00 1E 00 00 00 00 00 96	'07/02/28	0085	00003261	
					-
			_		

<Result Display Window>

Window 10

- The writing result of coding Items for which the writing result (Window 10: (1)) is checked is displayed. (See below).
 - (1) Value written in ECU
 - (2) Date when rewriting is performed
 - (3) ID of tool with which rewriting was performed (In case of MUT-III, "0085")
 - (4) Serial number of tool with which rewriting was performed (In case of MUT-III, serial number of V.C.I.)
- Press OK button (Window 10: (2)) to return to Coding Submenu Window (Window 3).

	All Data Info	rmation		N ²	1010
	Data mormation			(1)	
	Vehicle Informatio	on			
Codestan		Deserversites Data (V	Writing tool Information		
County term	Coung Data	r rogramming Date (n	Tool ID	Serial Number	
Injector of Cylinder 1 (TWV1)	9F 00 00 CA 00 E2 00 00 09 ED 00 00 00 00 53	'06/10/20	0085	00008338	
Injector of Cylinder 2 (TWV5)	9F 2F 00 00 00 00 14 00 09 00 00 00 00 00 AD	'06/10/20	0085	00008338	
Injector of Cylinder 3 (TWV3)	9F 00 00 00 00 00 17 00 1E 00 00 00 00 00 96	'06/10/20	0085	00008338	
Injector of Cylinder 4 (TWV6)	9F 00 00 00 00 00 10 00 17 00 13 00 00 00 8B	06/10/20	0085	00008338	
Injector of Cylinder 5 (TWV2)	9F 00 00 00 00 D8 00 00 00 E5 E3 00 00 00 41	'06/10/20	0085	00008338	-
Injector of Cylinder 6 (TWV4)	9F 2F 28 00 00 D6 18 00 15 00 00 00 00 00 43	'06/10/20	0085	00008338	
	ammunication Turas/OBD on CAM/SCC:EB03				
Number:ME303459/ROM-ID:******/C	ommunication Type:OBD on CAN/SCC:EB03		1		_

<All Data Display Window>

Window 11

- The following data which is written in ECU is displayed.
 - (1) Value which is written in ECU
 - (2) Date when rewriting was performed
 - (3) ID of tool with which rewriting was performed (In case of MUT-III, "0085")
 - (4) Serial number of tool with which rewriting was performed (In case of MUT-III, serial number of V.C.I.)

(3) Injector Data Writing

	ENGINE	
RTRAIN ENGINE		
Self-diagnosis	Data List	Actuator Test
Drive Recorder	OBD-II Test Mode	Voltmeter
Resistor	ECU Information	ECU Reset
Coding	Combination Actuator Test	
ion.		



• Press "Coding" button (Window 1: (1)) to proceed to the Coding Menu Window (Window 2).

Coding - Microsoft Internet Explorer - [Working Offline]			
	Coding		N401015720
POWERTRAIN ENGINE Coding			
All Data	(1)	VIN	
Injector		Q Adjustment	
РТО			
Please select function.			
	?		



• Press "Injector" button (Window 2: (1)) to proceed to the Coding Submenu Window (Window 3).



<Coding Submenu Window>



• Press each Function button to proceed to the following windows.

Function button name	Next window	Remarks
Injector Data Writing (Window 3: (1))	Password Input Window (Window 4)	Write "correction data" of each injector.
Injector Information (Window 3: (2))	Injector Information Display Window (Window 14)	Confirm the injector information which is written in ECU (correction data, etc.).

<password< th=""><th>Input</th><th>Window></th></password<>	Input	Window>
--	-------	---------



Window 4

- Enter password obtained from EOL server in Password Input field (Window 4: (1)) from the keyboard of MUT Screen or PC main unit.
- Press OK button (Window 4: (2)) to proceed to the Inquiry Number Input Window (Window 5).

	Inquiry r	number							(1)	
0	1	2	3	4	5	6	7	8	9	
A	в	с	D	E	F	G	н	1	J	
к	L.	м	N	o	P	Q	R	s	T	
U	v	w	x	Y	z					١
								Space	Back Space	Clear

<Inquiry Number Input Window>



- Enter inquiry number obtained from EOL server into Inquiry Number Input field (Window 5: (1)) from the keyboard of MUT Screen or PC main unit.
- Press OK button (Window 5: (2)) to proceed to the Data Input Method Select Window (Window 6).

		Input method of data	
	No.	Name	(1)
	1	manual input	
	2	automatic input	
		S	
-			
-			
	1		_
coloct Input mothed of data			

<Data Input Method Select Window>

• Select "Manual Input" (Window 6: (1)) and press OK button (Window 6: (2)) to proceed to the Injector Select Window (Window 7).

- Coding Injust	as Data Writing	Injector Data Writing	N4(
	or Data writing		
		Injector List	
	No.	Name	
	1	Injector of Cylinder 1 (TWV1)	
	2	Injector of Cylinder 2 (TWV5)	
Γ	3	Injector of Cylinder 3 (TWV3)	
Γ	4	Injector of Cylinder 4 (TWV6)	
	5	Injector of Cylinder 5 (TWV2)	
	6	Injector of Cylinder 6 (TWV4)	
ct the writing Injector.			

Window 7

- Select injector to which correction data is written from Injector List (Window 7: (1)).
- Press OK button (Window 7: (2)) to proceed to the Coding Data Input Window (Window 8).

	Codin	ng Data		Injector of	Cylinder 1	(TWV 1)				
0	1	2	3	4	5	6	7	8	9	
A	в	с	D	E	F	G	н	1	J	
к	L.	M	N	o	Р	Q	R	s	т	
UN	v	w	x	Y	z		٠	2	÷	ţ
								Space	Back Space	Clear

<Coding Data Input Window>



- Enter "Correction data" which is described in Injector into Coding Data Input Field (Window 8: (1)) (4M: 6 digits, 6M: 30 digits) from the keyboard of MUT Screen or PC main unit.
- Press OK button (Window 8: (2)) to proceed to the Work Memo Input Window (Window 9).

Memo			njector of Cylinder 1 (TWV1)				(1)			
0	1	2	3	4	5	6	7	8	9	
A	в	с	D	E	F	G	н	ġ.	J	
к	L	м	N	0	P	Q	R	s	T	
U	v	w	х	Y	z		•			١
								Space	Back Space	Clear

<Work Memo Input Window>



- Enter memo for reference into Work Memo Input field (Window 9: (1)) from the keyboard of MUT Screen or PC main unit. (As the input is optional, it can be left blank.)
- Press OK button (Window 9: (2)) to proceed to the Coding Contents Confirmation Window (Window 10).

<Coding Contents Confirmation Window>

	اسد
	Writing details
Coding Item	Injector of Cylinder 1 (TWV1)
Coding Data	9F 00 00 CA 00 E2 00 00 09 ED 00 00 00 03
Memo	
Programming Date (Yea	r/Month/Day'07/02/28
a hanna a s	00003261



• Confirm the writing contents (Window 10: (1)) and press OK button (Window 10: (2)) to proceed to the display Now Writing Window (Window 11) after Writing Confirmation Window is displayed.

MUT-III OPERATION

<Now Writing Window>

(Injector I Now writin	Data Wr ng.	iting	



• After writing is completed, Writing Complete Window (Window 12) is displayed.

<writing< th=""><th>Complete</th><th>Window></th><th></th></writing<>	Complete	Window>	



• Press OK button (Window 12: (1)) to proceed to the Result Display Window (Window 13).

	Writing Result	
Coding Item	Injector of Cylinder 1 (TWV1)	
Coding Data	9F 00 00 CA 00 E2 00 00 09 ED	00 00 00 00 53
Programming Date (Year/Month	(Day) '07/02/28	
Tool ID	0085	
Serial Numb	er 00003261	
ISAROM-ID:****7Communication Type OBC	on CAM/SOC/EB00VIN ************	

<Result Display Window>

- The writing result is displayed in Writing Result Window (Window 13: (1)) (See below).
 - (1) "Correction data" of injector
 - (2) Date when rewriting was performed
 - (3) ID of tool with which rewriting was performed (In case of MUT-III, "0085")
 - (4) Serial number of tool with which rewriting was performed (In case of MUT-III, serial number of V.C.I.)
- Press OK button (Window 13: (2)) to proceed to the Coding Submenu Window (Window 3).

	Vehicle Informatio	'n			
Coding Itom	Coding Data		Writing tool Information		
Coding Item	Coding Data	Programming Date (14	Tool ID	Serial Number	
Injector of Cylinder 1 (TWV1)	9F 00 00 CA 00 E2 00 00 09 ED 00 00 00 00 53	'06/10/20	0085	00008338	
Injector of Cylinder 2 (TWV5)	9F 2F 00 00 00 00 14 00 09 00 00 00 00 00 AD	'06/10/20	0085	00008338	
Injector of Cylinder 3 (TWV3)	9F 00 00 00 00 00 17 00 1E 00 00 00 00 00 96	'06/10/20	0085	00008338	
Injector of Cylinder 4 (TWV6)	9F 00 00 00 00 00 10 00 17 00 13 00 00 00 8B	'06/10/20	0085	00008338	
Injector of Cylinder 5 (TWV2)	9F 00 00 00 00 D8 00 00 00 E5 E3 00 00 00 41	'06/10/20	0085	00008338	
Injector of Cylinder 6 (TWV4)	9F 2F 28 00 00 D6 18 00 15 00 00 00 00 00 43	'06/10/20	0085	00008338	

<Injector Information Display Window>



- The following information which is written in ECU is displayed.
 - (1) "Correction data" of injector
 - (2) Date when rewriting was performed.
 - (3) ID of tool with which rewriting was performed (In case of MUT-III, "0085")
 - (4) Serial number of tool with which rewriting was performed (In case of MUT-III, serial number of V.C.I.)

(4) PTO Idle Speed Writing

<Function Select Window>

Self-diagnosis	Data List	Actuator Test
Drive Recorder	OBD-II Test Mode	Voltmeter
Resistor	ECU Information	ECU Reset
Coding	Combination Actuator Test	



• Press "Coding" button (Window 1: (1)) in Function Select Window to proceed to the Coding Menu Window (Window 2).

<coding menu="" window=""></coding>			
	Coding		N401015720
POWERTRAIN ENGINE Coding			
All Data		VIN	
Injector	(1)	Q Adjustment	
РТО			
Please select function.			
À	?		



• Press "PTO" button (Window 2: (1)) to proceed to the Coding Submenu Window (Window 3).

Codin	Ig
POWERTRAIN ENGINE Coding (1)	(2
PTO Idle Speed Writing	PTO Information
Select function.	j
📬 🖆 🛛 🖓	

<Coding Submenu Window>

Window 3

• Press each Function button to proceed to the the following windows.

Function button name	NEXT window	Remarks
PTO Idle speed Writing (Window 3: (1))	Password Input Window (Window 4)	Write "PTO idle speed" manually/automatically.
PTO Information	PTO Information Display	Confirm the PTO information written in ECU (PTO
(Window 3: (2))	Window (Window 13)	idle rotation number, etc.).

<Password Input Window>

_	Pas	sword)
0	1	2	3	4	5	6	7	8	9	
A	в	с	D	E	F	G	н	1	J	
к	L	м	N	0	P	Q	R	s	т	
U	v	w	x	Y	z		•	,	1	x
								Space	Back Space	Clear
input the	password go	t from the EC	L server.						-	

- Enter password in Password Input field (Window 4: (1)) from the keyboard of MUT Screen or PC main unit.
- Press OK button (Window 4: (2)) to proceed to the Inquiry Number Input Window (Window 5).

	Inquiry	number)
0	1	2	3	4	5	6	7	8	9	
A	в	с	D	E	F	G	н	1	J	
к	L	м	N	o	Р	Q	R	s	т	
U	v	w	x	Y	z		÷	,	-	x
								Space	Back Space	Clear

<Inquiry Number Input Window>



- Enter inquiry number in Inquiry Number Input field (Window 5: (1)) from the keyboard of MUT Screen or PC main unit.
- Press OK button (Window 5: (2)) to proceed to the Data Input Method Select Window (Window 6).

PIO Idle Speed Writing
ENGINE Coding PTO Idle Speed Writing
Input method of data
No. Name (1)
1 manual input
2 automatic input
Prease select input method of data.
(4)

<Data Input Method Select Window>

• Select "Manual input" (Window 6: (1)) and press OK button (Window 6: (2)) to proceed to the Coding Data Input Window (Window 7).



<Coding Data Input Window>



- The current value written in "Current Value" (Window 7: (1)) in ECU is displayed.
- The value written in "New Value" (Window 7: (2)) in ECU is displayed.
- Select PTO idle rotation number using the slider in "New Value Setting" (Window 7: (3)) and up/down buttons.
- Press OK button (Window 7: (4)) to proceed to the Work Memo Input Window (Window 8).



<Work Memo Input Window>

- Enter memo in Work Memo Input field (Window 8: (1)) from the keyboard of MUT Screen or PC main unit, (It can be left blank)
- Press OK button (Window 8: (2)) to proceed to the Coding Contents Confirmation Window (Window 9).

Codina Itam	Writing details
	PTO Idle Seed
Coding Data	1250 rpm
Memo	Customer request
Programing Date (Year/Month/Day)	'05/10/11
Serial Number	12345678
riting contents.VIN:FE83DDZSLSUB	

<Coding Contents Confirmation Window>



• Confirm the writing contents (Window 9: (1)) and press OK button (Window 9: (2)) to display Now Writing Window (Window 10) after Writing Confirmation Window is displayed.





• When writing is completed, Writing Complete Window (Window 11) is displayed.

<Writing Complete Window>



• Press OK button (Window 11: (1)) to proceed to the Result Display Window (Window 12).

		Writing Result	
Coding Item		PTO Idle Seed	
Coding Data		1250 rpm	
Programing Da	ate (Year/Month/Day)	'05/10/11	
Writing tool	Tool ID	0085	
Information	Serial Number	12345678	
3/ROM-ID:******/	Communication Type UDS	on CAN/SCC:EB04/VIN:FE83DDZSLSUB	8

Posult Display Wind

- Writing result is displayed in Writing Result Window (Window 12: (1)). Press OK button (Window 12: (2)) to return to Coding Submenu Window (Window 3). ٠

Coding	tem		PTO Idle Seed	
Coding	Data		1250 rpm	
Program	ning Dat	e (Year/Month/Day)	'05/10/11	
Writin	tool	Tool ID	0085	
Inform	ation	Serial Number	12345678	

<PTO Information Display Window>

Window 13

• The "PTO idle rotation number" which is written in ECU is displayed.

(5) SLD Limited Speed Writing

<Function Select Window>

Self-diagnosis	Data List	Actuator Test
Drive Recorder	Voltmeter	Resistor
ECU Information	Coding	1)



• Press "Coding" button (Window 1: (1)) in Function Select Window to proceed to the Coding Menu Window (Window 2).



<Coding Menu Window>



• Press "SLD" button (Window 2: (1)) to proceed to the Coding Submenu Window (Window 3).
Coding POWERTRAIN INTEGRATION CONTROL Coding (1)	(2)
SLD Limited Speed Writing	SLD Information
Select function	

<Coding Submenu Window>

Window 3

• Press each Function button to proceed to the following windows.

Function button name	Next window	Remarks
SLD Limited Speed	Password Input Window	Write "SLD limit vehicle speed" manually/
Writing (Window 3: (1))	(Window 4)	automatically.
SLD Information	SLD Information Display	Confirm the SLD information (SLD limit vehicle
(Window 3: (2))	Window (Window 13)	speed, etc.) which is written in ECU.

<Password Input Window>

	Pas	sword)
0	1	2	3	4	5	6	7	8	9	
A	в	с	D	E	F	G	н	I	J	
к	L	м	N	0	Ρ	Q	R	s	т	
U	v	w	x	Y	z		•	,	÷	Ņ
								Space	Back Space	Clear
input the	password go	t from the EC	L server.			_		1		

- Enter password in Password Input field (Window 4: (1)) from the keyboard of MUT Screen or PC main unit.
- Press OK button (Window 4: (2)) to proceed to the Inquiry Number Input Window (Window 5).

_	Inquiry	number							(1)
0	1	2	3	4	5	6	7	8	9	
A	в	с	D	E	F	G	н	1	J	
к	L	м	N	0	P	Q	R	s	т	
U	v	w	x	Y	z		•	,	-	N
								Space	Back Space	Clear
input the	Inquiry numb	er got from th	e EOL server			1	~	1	1	1

<Inquiry Number Input Window>



- Enter inquiry number in Inquiry Number Input field (Window 5: (1)) from the keyboard of MUT Screen or PC main unit.
- Press OK button (Window 5: (2)) to proceed to the Data Input Method Select Window (Window 6).

	SLD	Limited Speed Writing	
INTEGRATION CONTROL	Coding	SLD Limited Speed Writing	
		Input method of data	
	No.	Name (1)	
	1	manual input	
	2	automatic input	
	1		
	-		
Plassa salast input mathed of data			_
	~		
		2	
		(2)	
		Window 6	

<Data Input Method Select Window>

• Select "Manual input" (Window 6: (1)) and press OK button (Window 6: (2)) to proceed to the Coding Data Input Window (Window 7).



<Coding Data Input Window>

- The current value written in "Current Value" (Window 7: (1)) in ECU is displayed.
- A value written in "New Value" (Window 7: (2)) in ECU is displayed.
- Select SLD ON/OFF in "SLD Setting" (Window 7: (3)).
 ON: Select SLD vehicle speed (30 km/h to 104 km/h) using the slider.
 OFF: No limit vehicle speed (255 km/h)
- Select SLD vehicle speed using slider in "New Value Setting" (Window 7: (4)) and increase/decrease button.
- Press OK button (Window 7: (5)) to proceed to the Work Memo Input Window (Window 8).

	M	emo		SLD Limit	ed Speed					.(1)
0	4	2	3	4	5	6	7	8	9	
A	в	с	D	E	F	G	н	4	J	
к	L	м	N	o	P	٩	R	S	Ŧ	
U	v	w	x	Ŷ	z		÷		•	N.
								Space	Back Space	Clea
e informa	tion which be	ecomes after	reference.VI	N:FE830DZS	SLSUB		~			

<Work Memo Input Window>

- Enter memo in Work Memo Input field (Window 8: (1)) from the keyboard of MUT Screen or PC main unit (It can be left blank).
- Press OK button (Window 8: (2)) to proceed to the Coding Contents Confirmation Window (Window 9).

Coding Item	SLD Limited Speed
Coding Data	80 km/h
Memo	Customer request
Programing Date (Year/Month/Da	y) '05/10/11
Serial Number	12345678

<Coding Contents Confirmation Window>



• Confirm the writing contents (Window 9: (1)) and press OK button (Window 9: (2)) to display Now Writing Window (Window 10) after Writing Confirmation Window is displayed.

•	SLD Lim	ited Spe	ed Writin	ng	
	Now writin	ng.			
	1		-		



• When writing is completed, Writing Complete Window (Window 11) is displayed.

<Writing Complete Window>



• Press OK button (Window 11: (1)) to proceed to the Result Display Window (Window 12).

		Writing Result	
Coding Item		SLD Limited Speed	
Coding Data		80 km/h	
Programing Da	te (Year/Month/Day)	'05/10/11	
Writing tool	Tool ID	0085	
Information	Serial Number	12345678	

- Window 12
- Writing result written in Writing Result (Window 12: (1)) is displayed.
 Press OK button (Window 12: (2)) to return to Coding Submenu Window (Window 3).

Coding Item		SLD Limited Speed
Coding Data		80 km/h
Programing Date (Year/Month/Day)		'05/10/11
Writing tool	Tool ID	0085
Information	Serial Number	12345678

<SLD Information Display Window>

Window 13

• The value of "SLD limit vehicle speed" which is written in ECU is displayed.

(6) Ash Data Writing

<function select="" th="" window<=""></function>
--

Drive Recorder	OBD-II Test Mode	Voltmeter
Resistor (1	ECU Information	ECU Reset
Coding	Combination Actuator Test	



• Press "Coding" button (Window 1: (1)) in Function Select Window to proceed to the Coding Menu Window (Window 2).





• Press "Ash" button (Window 2: (1)) to proceed to the Coding Submenu Window (Window 3).

POWERTRAIN ENGINE Coding (1)	(2)
Ash Accumulation Amount Writing	Ash Information
Select function.	
1 1 P	

<Coding Submenu Window>

Window 3

• Press Function button to proceed to the following windows.

Function button name	Next window	Remarks
Ash Accumulation Amount	Password Input Window	Write "Ash data" manually/
Writing (Window 3: (1))	(Window 4)	automatically.
Ash Information	Ash Information Display Window	Confirm the Ash information (Ash data)
(Window 3: (2))	(Window 13)	written in MUT.

<Password Input Window>

	Pas	sword							.(1)
0	1	2	3	4	5	6	7	8	9	
A	в	с	D	E	F	G	н	i	J	
к	L	м	N	0	P	Q	R	s	т	
U	v	w	x	Y	z		•			x
								Space	Back Space	Clea
input the	password go	t from the EC	L server.	1						
	È		\$?		~~	×			

- Enter password in Password Input field (Window 4: (1)) from the keyboard of MUT screen or PC main unit.
- Press OK button (Window 4: (2)) to proceed to the Inquiry Number Input Window (Window 5).

0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z . , - X	_	Inquiry	number							(1)
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z . , - X U V W X Y Z . space Back Space Clexit	0	1	2	3	4	5	6	7	8	9	
K L M N O P Q R S T U V W X Y Z . , . . U V W X Y Z . , . . U V W X Y Z 	A	в	с	D	E	F	G	н	i	J	
U V W X Y Z . , - N	к	L	м	N	o	P	Q	R	s	т	
Space Back Cler	U	v	w	x	Y	z		•	,		١
Space									Space	Back Space	Clear

<Inquiry Number Input Window>



- Enter Inquiry Number in Inquiry Number Input field (Window 5: (1)) from the keyboard of MUT Screen or PC main unit.
- Press OK button (Window 5: (2)) to proceed to the Data Input Method Select Window (Window 6).

	-	Input method of data	
	No.	Name	(1)
	1	manual input	
	2	automatic input	
	· · · · · · · · · · · · · · · · · · ·		
lease select Input method of data	2.		
	<u>\$</u>	$\overline{2} \rightarrow \times$	

<Data Input Method Select Window>

• Select "Manual input" (Window 6: (1)) and press OK button (Window 6: (2)) to proceed to the Coding Data Input Window (Window 7).



<Coding Data Input Window>

<To write data which is read from ECU>

- Press "Read" button (Window 7: (2)) to read Ash data from ECU after the confirmation window ^{*1} is displayed and to display the data in the Coding Data Input field (Window 7: (1)).
 - ^{*1}: Check if the ECU before replacement is connected.
- Press OK button (Window 7: (3)) to proceed to the Work Memo Input Window (Window 8).
- <To write Ash data by manually entering memo value>
- Enter the memo "Ash data" which is read from ECU before replacement in the Coding Data Input field (Window 7: (1)) from the keyboard of MUT Screen or PC main unit.
- Press OK button (Window 7: (3)) to proceed to the Work Memo Input Window (Window 8).



<Work Memo Input Window>



- Enter memo in the Work Memo Input field (Window 8: (1)) from the keyboard of MUT Screen or PC main unit (It can be left blank).
- Press OK button (Window 8: (2)) to proceed to the Coding Contents Confirmation Window (Window 9).

	Writing details
Coding Item	Ash Accumulation Amount
Coding Data	03 4D B0
Memo	Replace ECU
Programing Date (Year/Month/Day)	'05/10/11
Serial Number	12345678
n writing contents. VIN:FE83DDZSLSUB	

<Coding Contents Confirmation Window>

- Confirm the writing contents (Window 9: (1)) and press OK button (Window 9: (2)) to display the Now Writing Window (Window 10) after the Writing Contents Writing Window ^{*1} is displayed. •
 - ^{*1}: Confirm if it is replaced with a new ECU.





When writing is completed, Writing Complete Window (Window 11) is displayed. •

> <Writing Complete Window> Ash Accumulation Amount Writing





Press OK button (Window 11: (1)) to proceed to the Result Display Window (Window 12). •

Coding Name		writing Result	
Cooing item		Asn Accumulation Amount	
Coding Data		03 4D B0	
Programing Da	ate (Year/Month/Day)	'05/10/11	
Writing tool	Tool ID	0085	
Information	Serial Number	12345678	
/ROM-ID:******/(Communication Type:UDS	on CAN/SCC.EB04/VIN:FE83DD	ZSLSUB

Posult Display Wind

- Writing result is displayed in Writing Result Window (Window 12: (1)). Press OK button (Window 12: (2)) to return to the Coding Submenu Window (Window 3). ٠

			Pehicle Information		
Codir	ng Item		Ash Accumulation Amount		
Codir	ng Data		03 4D B0		
Prog	raming Da	te (Year/Month/Day)	'05/10/11		
Writ	ting tool	Tool ID	0085		
Info	rmation	Serial Number	12345678		

<Ash Information Display Window>

Window 13

• The "Ash data" value which is written in ECU is displayed.

ECU Field Rewriting Operation Manual

MITSUBISHI FUSO TRUCK & BUS CORP.

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