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## **READING DTCS**

## READING DTCS FROM A SELECTED SYSTEM

EN01N80ZZZ060102001001

1. PRESS THE [Diagnosis] BUTTON. (Main menu screen)



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2. SELECT THE VEHICLE TO DIAGNOSE FROM [Vehicle Classification]. (Read DTC window)



3. SELECT THE EMISSION CODE OF THE VEHICLE TO DIAG-NOSE FROM [Area]. (Read DTC window)

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Read out Close

4. SELECT THE SYSTEM TO READ. (Read DTC window)

#### HINT

Multiple systems may be selected.

Check the checkbox at the header to select all the systems at the same time.

PRESS THE [Read out] BUTTON. 5. (Read DTC window)

DTC READING STARTS. 6. (Communication Progress with ECU window)

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#### SHTS80ZZZ0600007

V

#### IF READING IS COMPLETED WITHOUT ERRORS

THE DIAGNOSIS MAIN WINDOW IS AUTOMATICALLY DIS-1. PLAYED. (Diagnosis main window)





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#### **ERROR DURING READING**



#### 1. COMMUNICATION LINE ESTABLISHMENT ERROR (ECU communication progress screen)

- (1) This appears when the communication with the interface has not been established properly.Remedy: Check the connection of communication cable with the interface and with the vehicle.
- (2) Press the [Back] button to display the main menu screen.





#### 2. PART NUMBER ALLOCATION ERROR (ECU communication progress screen)

- This appears when the part number read from the system does not exists in the DB. Remedy: Check if the DB version is up-to-date.
- 3. PRESS THE [Finish] BUTTON TO DISPLAY THE Diagnosis MAIN WINDOW.

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## DIAGNOSIS MAIN WINDOW

#### ADDITIONAL READING/UPDATING

EN01N80ZZZ060102002001

- 🖸 (D File(F) Web page(P) ting(S) a 🕊 -V = J08E-VG 89663-E205 Present 🔹 B2799 Abnormality in Engine B279C Installation of e P0007 Malfunction of the second se This level possible to check bello P0045 Malfunction of VN P007B Abnormality in ch items P007D Malfunction of int Equipmen P0088 Abnormality in co P0097 Malfunction of int P00AF Malfunction of P0102 Malfunction of: P0104 Abnormality in P0108 Malfunction of bo P0113 Malfunction of int P0117 plfunction of co onormality in int P011C Read out / Update Read out all / Update all Delete Delete al Auto OFF/ON SHTS80ZZZ0600010
- CHECK THE SYSTEM FROM WHICH YOU WANT TO ADDI-1. TIONALLY READ OR UPDATE DTCS AND PRESS THE [Read out/Update] BUTTON. (Diagnosis main window)



DTC READING STARTS. 2. (Progress read DTC)

#### HINT

When the interface is connected via Bluetooth, the communication speed is slower.



AFTER READING IS COMPLETED, THE DISPLAYED TREE IS 3. UPDATED.

(Diagnosis main window)

#### HINT

Pressing the [Read out all/Update all] button reads or updates DTCs from all the systems displayed on the tree regardless of whether or not they are checked.

1.

## **DELETING DTCS**

(Diagnosis main window)

EN01N80ZZZ060102002002

🔁 [Diag etting(S) Web page(P) Past work information (W) Version info(V) File(F) \* 11 J08E-VG 89663-E205 - Present B2799 Abnormality in Engin B279C Installation of e
 P0007 Malfunction of t This level possible to check bellow P0045 Malfunction of VN P007B Abnormality in ch items P007D Malfunction of int Equipment P0088 Abnormality in co P0097 Malfunction of int P00AF Malfunction of P0102 Malfunction of: • P0104 Abnormality in P0108 Malfunction of bo P0113 Malfunction of int P0117 Malfunction of co P011C Abnormality in int Read our Update Update al Read out a Delet Delete all Auto OFF/ON

SHTS80ZZZ0600013

Delete selected DTC. Are you OK?	
Execution Cancel	
SHTS80ZZZ0600014	

2.	A CONFIRMATION MESSAGE APPEARS. PRESS THE [Execu-
	tion] BUTTON.
	(Delete Target DTC)

CHECK THE BOX NEXT TO THE SYSTEM YOU WANT TO

DELETE DTCS FROM, OR CLICK TO SELECT THE SYSTEM,

AND THEN PRESS THE [Delete] BUTTON.

[Delete DTC Progress][SC0235]	X
Engine Clear DTC. Configures tree-structured information.	
	Cancel
	SHTS207770600015

HINO DX || STARTS DELETING DTCS. 3. (Delete DTC Progress)



4. AFTER THE DTCS ARE DELETED, THIS MESSAGE APPEARS. PRESS THE [OK] BUTTON. (Confirm of Delete DTC)



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5. AFTER DELETION IS COMPLETED, THE DISPLAYED TREE IS UPDATED. (Diagnosis main window)

#### HINT

Pressing the [Delete all] button deletes DTCs from all the systems displayed on the tree regardless of whether or not they are checked.

#### **AUTOMATIC UPDATING**

EN01N80ZZZ060102002003

[Diagnosis main window][SC0203]-[During the si     [i](C)     [i](C)	mulation j <sup>e</sup>
File(F) Setting(S) Web page(P) Past wo	vrk information (W) Version info(V)
Engine A	Classification
- J08E-VG 89663-E205	Selection
Present	
B2799 Abnormality in	Engine
B2/9C Installation of e	This level possible to check by
= P0007 Malfunction of 1	This level possible to check b
- P007B Abnormality in ch	
- P007D Malfunction of int	items
- P0088 Abnormality in co	Equipment
- P0097 Malfunction of int	
P00AF Malfunction of	
• P0102 Malfunction of:	
P0104 Abnormality in	
- P0108 Malfunction of bo	
P0113 Malfunction of int	
PU117 Malfunction of co	
POTIC Abnormality in im	
Read out / Update	
Read out all / Update all	
Delle	
Deleval	-

1. CHECK THE BOX NEXT TO THE SYSTEM YOU WANT TO AUTOMATICALLY UPDATE DTCS FROM, OR CLICK TO SELECT THE SYSTEM, AND THEN PRESS THE [Auto OFF/ ON] BUTTON. (Diagnosis main window)



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# 2. AUTOMATIC UPDATING STARTS. (Diagnosis main window)

HINT

- To stop automatic updating, press the [Stop] button.
- When automatic updating is done for one system, [Data monitor] and [Active test] are available while automatic updating is enabled, but when automatic updating is done for two or more systems, other functions are unavailable.

## **DEFECT INFORMATION**

#### **DETAILS OF PHENOMENA**

EN01N80ZZZ060102003001

- <complex-block>

   Image: Sector relation (image: sector relation
- 1. FROM THE DISPLAYED TREE, SELECT THE DEFECT PHE-NOMENON BELOW THE SYSTEM SUSPECTED OF BEING DEFECTIVE. (Diagnosis main window)

- Cognetis max wedge (\$20203) (During the service)

   Field's Setting's Web regel? During the service information (W) Version info(V) Height)

   Field's Setting's Web regel?

   Field's setting's setting'setting's setting'setting'setting'setting'setting'se
- 2. SELECT THE CATEGORY. (Diagnosis main window)

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SHTS80ZZZ0600022

3. SELECTING THE SYMPTOM OBSERVED DISPLAYS THE POS-SIBLE CAUSES AND REMEDIES IN THE "DTC information" TAB SHOWN TO THE RIGHT. (Diagnosis main window)

## **DETAILS OF DTCS**

EN01N80ZZZ060102003002

- BE-VB [ECU ps
- 1. CLICK THE DTC ON THE DISPLAYED TREE FOR WHICH YOU WANT TO VIEW THE DETAILS TO DISPLAY THE DETAILS OF THE DTC IN THE "Fault information" TAB SHOWN TO THE RIGHT.

(Diagnosis main window)

PRESS THE [Freeze Frame] BUTTON. 2. (DTC information tab)

#### HINT

3.

If no vehicle data at the time of DTC occurrence is present, the [Freeze Frame] button is not displayed.

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Ne

[ECU part number] 89663-E302

Freeze frame

iagnosis

[Freeze frame data read progress screen][SC0264] I am getting the freeze frame data Cancel

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**READING OF FREEZE FRAME DATA STARTS.** (Freeze frame data read progress screen)

≥ ≪	[Select	of Eavipment ] Engine	101E-1/8 61663-E302					sustomization	Back menu	New Disgnosis
VB 89663-E302	DTR	2 information	Diagnostic flow	Loca informat Scher	tion ion and watic	Inspection N	lenu	Data monito Active te	and System	protection e1a
B2799 Absormality in	Fre	eze frame data								
B279C Installation of e		Item name			Before2	Before1		Detecting	After1	Unit
P0007 Melfunction of fla		Year							4294967000	) Year
PUD4D Mallunction of VN		Month								Month
2007D Malfunction of int		Day							15	Day
P0088 Abnormality in co		Hours							11	Hours
P0097 Malfunction of int		Moutes							21	Moutes
POOAF Malfunction of		Engine coolant t	emperature						90	degC
P0102 Manufaction of a		Engine revolution							200	m
20108 Malfunction of bo		Injection quantit	hr						200.00	mm2/at
P0113 Malfunction of int		Final accelerato	r coaring						5	8
20117 Malfunction of co		Speed							123	km/h
OTTC Abnormality in inf		Intake air press	ure						25	kPa
and our Allerian		2 disit disercais	code						12	
And the P Colore		Actual common	rai orașeara						125.0	MPa
out all / update all					-					
Delete										Back
Delete all										
Auto OFF/ON										
		· 🛋 🛯 🖬 🦉	au 🙃 ene ma	🔺 under	te is comele					¥ 🖉 👂 🔻

FREEZE FRAME DATA IS DISPLAYED. 4. (DTC information tab)



Data

Inspection Menu

[System name] J08E-VB

Location information and Schematic

ircuit/Open)



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5. PRESS THE [Back] BUTTON TO DISPLAY THE PREVIOUS SCREEN. (DTC information tab)

## **DIAGNOSIS FLOW**

## **DIAGNOSIS FLOW**

"Diagnostic flow" TAB.

DIAGNOSIS FLOW. (Diagnostic flow tab)

nomenon to another.

EN01N80ZZZ060102004001

- <complex-block>
- 1. ON THE DISPLAYED TREE, SELECT THE DTC YOU WANT TO PERFORM DIAGNOSIS FOR AND SELECT "Diagnostic flow" TAB FROM THE TAB LIST SHOWN TO THE RIGHT. (Diagnosis main window)

THE DIAGNOSIS PROCEDURE LIST IS DISPLAYED IN THE

CLICK THE [Diagnostic flow start] BUTTON TO START THE

Different Diagnosis flows are provided for different DTCs and phenomena. The details or procedure may differ from one DTC or phe-

torice 
 t

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2.

HINT



3. READ EACH INSTRUCTION AND SELECT Yes OR No TO PRO-CEED WITH THE DIAGNOSIS. (Diagnostic flow tab)



4. TO STOP THE DIAGNOSIS FLOW, PRESS THE [Cancel] BUT-TON. (Diagnostic flow tab)



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# 5. THE DIAGNOSIS FLOW RATING SCREEN IS DISPLAYED. (Diagnostic flow tab)

(1) Determine the rating, enter comments, and press the [OK] button.

#### HINT

The diagnosis flow rating is counted and used to improve the diagnosis flow.

#### WHEN BUTTONS ARE DISPLAY ON THE SCREEN

- Pressing the [View Manual] button starts the browser to display the manual.
- Pressing the [Data monitor] button displays the "Data monitor" tab.
- Pressing the [Active test] button displays the "Data monitor and Active test" tab and opens the test execution screen.
- Pressing the [Check] button displays the "Check"tab.
- Pressing the [Initial setting/Initial learning] button displays the "Initial setting/Initial learning" tab.

#### HINT

To return to the diagnosis flow screen, press the [Back to the diagnosis flow] button on the current screen.

At this time, the data monitor and check-related values may be automatically updated.

## LOCATION INFORMATION AND SCHEMATIC

#### LOCATION INFORMATION AND SCHEMATIC

EN01N80ZZZ060102005001



1. ON THE DISPLAYED TREE, SELECT THE "System" OR "DTC" FOR WHICH YOU WANT TO BROWSE THE TECHNICAL INFORMATION AND, FROM THE TAB LIST SHOWN TO THE RIGHT, SELECT THE "Location information and Schematic" TAB.

(Diagnosis main window)

2. RELATED TECHNICAL INFORMATION IS DISPLAYED IN THE TAB.

(Location information and schematic tab)



# DISPLAYING MAGNIFIED OR REDUCED LOCATION INFORMATION AND SCHEMATIC

1. CLICK THE ILLUSTLATION OF LOCATION INFORMATION AND SCHEMATIC.

(Location information and schematic tab)

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**H H** 

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2. A MAGNIFIED VIEW SCREEN OF LOCATION INFORMATION AND SHCMETIC IS DISPLAYED.

#### HINT

Clicking the [+]/[-] icon at the upper right of the screen magnifies/ reduces the view.

## **CHECK MENU**

## **COMMON TO INDIVIDUAL CHECKS**

EN01N80ZZZ060102006001

1. ON THE DISPLAYED TREE, SELECT THE "System" OR "DTC" YOU WANT TO PERFORM THE CHECK ON AND SELECT THE "Inspection Menu" TAB FROM THE TAB LIST SHOWN TO THE RIGHT.

(Diagnosis main window)

 Networking/Sector ( Storage in exclusion)
 Contraction ( M )
 Cont

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2. THE LIST OF CHECK MENU ITEMS SET FOR THE SYSTEM IS DISPLAYED. (Inspection Menu tab)

HINT

In the list of check menu items, the check menu items having yellow background are the recommended check items for the selected DTC.

- Within 200222 Storage de manacerie

   Within 200222 Storage de manacerie

   Within 2002 Storage de manacerie

   W
  - SHTS80ZZZ0600040

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3. SELECT THE ITEM YOU WANT TO CHECK. THE CHECK SCREEN IS DISPLAYED IN THE "Inspection Menu" TAB. (Inspection Menu tab)

4. PRESS THE [Start inspection] BUTTON TO START THE CHECK. (Inspection Menu tab)



 Number
 Numer
 Number
 Number
 Number</th

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[Inspect stop check window][SC0247]-[During the simulation]

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5. FOLLOW THE "Description" AND "Warning" TO PERFORM THE CHECK. (Inspection Menu tab)

6. PRESS THE [End Inspection] BUTTON TO FINISH THE CHECK. (Inspection Menu tab)

# WHEN ANOTHER TAB IS SELECTED DURING CHECK

1. WHEN YOU TRY TO MOVE TO ANOTHER TAB BEFORE THE CHECK IS COMPLETED, A DIALOG APPEARS TO PROMPT YOU TO WAIT UNTIL COMPLETION OF THE CHECK. (Check stop confirmation screen)

#### HINT

Pressing the [OK] button stops the check and moves the display to another tab.

## **DPR CHECK**

EN01N80ZZZ060102006002

1. PERFORM THE CHECK ACCORDING TO THE COMMON CHECK MENU PROCEDURE.

(F) Setting(S) Web page(P) Past v	ork information (W) Version info(V)	Help(H)				_
> <	[Selected Equipment ] Engine J002-VB 00001	+EM2	Cue	nomization 8	Back menu New Diagnos	ais .
Engine - J08E-VB 89663-E302	DTC information Diagnostic	flow Information and Schematic	Inspection Menu	Data monitor and Active test	System protection data	
Present	Inspection Menu					
<ul> <li>B2799 Abnormality in</li> </ul>	DOR aburk	DPR check				
<ul> <li>B279C Installation of e</li> </ul>		items	Value		Start inspection	
- PODD/ Malfunction of 0	Amount of intake air flow ins	Temperature determinatio	n DPR wel.	-	Report all COR items	
20078 Abnormality in ch	EGR inspection	DPR abnormal overheat id	entification	-	Interest Control of the second	
P007D Malfunction of int	VNT inspection	Differential pressure senso	r clogging i		regeneration	
- P0088 Abnormality in co	Evel lash interaction			-	DPR differential pressure	
- P0097 Malfunction of int		Catalyst deterioration iden	dification o	-	CTRON.	
<ul> <li>POOAF Malfunction of</li> </ul>	Turbocharger inspection	Catalyst deterioration tem	porary jud			
<ul> <li>P0102 Malfunction of (</li> </ul>	Intake throttle valve inspect					
<ul> <li>POTOL Abnormality in .</li> </ul>	Inspecting common rail area	Description				
-P0113 Mail rection of intak		Namel.				
P0117 Malfunction of co-						
- P011C Abnormality in int						
		Wanite				
Read out / Update		For resetting all the DPR items, sh	to the encire, keep the ever in		I tan the starter key CN	
Read out all / Update all						
Delate						
Delete all						
Auto OFF/ON						

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## EGR CHECK

EN01N80ZZZ060102006003

1. PERFORM THE CHECK ACCORDING TO THE COMMON CHECK MENU PROCEDURE.

PERFORM THE CHECK ACCORDING TO THE COMMON



**PCS OPERATION CHECK** 

CHECK MENU PROCEDURE.

EN01N80ZZZ060102006004



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**VNT CHECK** 

1.

EN01N80ZZZ060102006005

1. PERFORM THE CHECK ACCORDING TO THE COMMON CHECK MENU PROCEDURE.



## **AXLE MODULATOR CHECK**

EN01N80ZZZ060102006006

1. PERFORM THE CHECK ACCORDING TO THE COMMON CHECK MENU PROCEDURE.



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## **COMMON RAIL PRESSURE CHECK**

EN01N80ZZZ060102006007

1. PERFORM THE CHECK ACCORDING TO THE COMMON CHECK MENU PROCEDURE.



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HAT ALLER LARD LARD LARD LARD	ork information (M) V	fersion info[y) He	ele(H)			
	( Selected Equipment ) Engin	e DHK1-7CACHEPS) IS	,06076570		Customization Ba	ck menu New Diagnosi
C Engine 6HK1-TCN(240PS)8976070	DTC information	Disgnostic flow	Location information and Schematic	Inspection Menu	Data monitor and Active test	
+ Prosent	Inspection Menu				-	
P0016 Abnormality in-		-	Jommon rail differential pr	ressure inspection		
P0079 Exhaust throttl	Common rais officie	type, two	iterus.	Value	Unit	Start inspection
<ul> <li>P0087 Abnormally+low p</li> </ul>					- MPA	
PORB Abnormality of co						P1010
- P0091 Fouriar pressure						
- P0103 MAE samor syste						
P0100 Manifold absolute						
P0113 Intake air temp						
P0118 Coolant temper						
P0123 Throttle sensor			Description			
P0183 Fuel temperature			Connor rail differential pressure	e = (Actual common vail pre	ours) - (Target common rail pr	eioze]
- P0193 Fuel rail pressure						
P0202 Abnormality in inj						
P0204 Abnormatity in inj			1			
			la reg			
Read out / Update						
Read out all / Update all						
Delete			1			
Delete all						

## COMMON RAIL PRESSURE DIFFERENCE CHECK

EN01N80ZZZ060102006008

1. PERFORM THE CHECK ACCORDING TO THE COMMON CHECK MENU PROCEDURE.

## **TURBO CHECK**

EN01N80ZZZ060102006009

1. PERFORM THE CHECK ACCORDING TO THE COMMON CHECK MENU PROCEDURE.





## DRIVER MONITOR CAMERA OPERATION CHECK

EN01N80ZZZ060102006010

1. PERFORM THE CHECK ACCORDING TO THE COMMON CHECK MENU PROCEDURE.



## **TRAILER CONTROL VALVE CHECK**

EN01N80ZZZ060102006011

1. PERFORM THE CHECK ACCORDING TO THE COMMON CHECK MENU PROCEDURE.

(Degross main window)(SC0203) (During the	smulaton)			
Ve(F) Setting(S) Web page(P) Past	ork information (W) Version info(V	) Help(H)		
<b>.</b>	[Selected Equipment ] Brake (WABOO EBS)	EBS SHI21ER	Customization	Back menu New Diagnor
Brake (WADCO EBS)     EBS S8921E0	DTC information Diagnosti	c flow Information and Schematic	Impection Menu Data monito Active to	or and out
Present     P1E142-1-1 Malfunct	Inspection Menu	Trailer control valve inspectio	n	
P1E16 2-1-3 Malfunct	And motorator reportor	komo	Value Unit	Start inspection
P1E1A2-1-5 Malfunc	Proportional relay valve imp	Tening control white constant	100	
PTETG 2-1-7 Malfunctic	Trailer control valve inspecti.			Proceure
PIEI62-2-3 Malfanetio				Pressure
P1F1A2-2-5 Malfunctio				Drive
P1F1C 2-2-7 Malfunctic				
P2830 3-1-1 Melfunct				
P2930 3-2-1 Melfunct				
<ul> <li>P2A303-3-1 Malfunct</li> </ul>		Description		
P2B303-4-1 Malfunctio		Change from 180 to 298 KPe and pre	as 'Drive' button.	
P2020 4-1-1 Malfunction				
P2928 4-2-1 Mulfunction				
		Watting		
Bearl out / Lindate		Execute in the status when engine is	stopped, gear is neutral and the parking brail	e is pulled.
Read and all ( Hadata at				
L'elete				
Delete all				
Aven OFF/ON				

## **PULSE EGR CHECK**

EN01N80ZZZ060102006012

PERFORM THE CHECK ACCORDING TO THE COMMON 1. CHECK MENU PROCEDURE.



SHTS80ZZZ0600055

## **PROPORTIONAL RELAY VALVE CHECK**

EN01N80ZZZ060102006013

1. PERFORM THE CHECK ACCORDING TO THE COMMON CHECK MENU PROCEDURE.



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## **INTAKE THROTTLE VALVE CHECK**

EN01N80ZZZ060102006014

1. PERFORM THE CHECK ACCORDING TO THE COMMON CHECK MENU PROCEDURE.

(F) Setting(S) Web nam(P) Past	sork information (W) Version info(V)	HeadH	(Cital)
• «	[Selected Equipment ] Engine JBIE-VB 8988	-EN2 Customization	Back menu New Diagnosi
Engine	DTC information Diagnostic	flow Information and Impection Menu Cata meeter an Active text	d System protection data
Present	Inspection Menu		
82799 Abnormality in	DPR check	Intake throttle valve inspection	
<ul> <li>B279C Installation of c</li> <li>B0002 Malformation of i</li> </ul>	former of banks of the law	Rems Value Unit	Start inspection
P0045 Malfunction of VA	Periodic of Plane ar Iow Pb	Intake throttle valve opening 0 %	Opening UP
P007B Abnormality in char	EGR inspection	(Data monitor) Actual coarries of intains throat - %	Oracina DOWN
P007D Malfunction of int	VNT inspection		Intake throttle value
POUSS Abnormality in co POUSS Multivection of int	Fuel leak inspection		initialization
· PODAF Malfunction of	Turbocharger inspection		
P0102 Malfunction of	Intake throttle valve inspect		
P0104 Abnormality in	Instruction common and sure	Description	
P0113 Milfurction of int		By preasing spening UP/spening DOWN buttor, the required intella throttle valve spenin within the spen of I to 1000 Check that actual intella throttle valve in followed	g could be charged by 10% at a time
P0117 Malfunction of co		Standard value Within the range of 0 to 100K de	
- P011C Abnormality in int			
		Variet	
Read out / Update		Drop the engine, keep the eter in the neutral position and turn the key switch CN. The engine is stalled when inspected during engine run.	
Read out all / Update all		No problem even if the value 20K or less does not fail within the standard value.	
Delete			
Delete all			
A 0075 1011			

## **AIR INTAKE VOLUME CHECK**

EN01N80ZZZ060102006015

1. PERFORM THE CHECK ACCORDING TO THE COMMON CHECK MENU PROCEDURE.



## **DEF ADDITION TEST**

EN01N80ZZZ060102006016

PERFORM THE CHECK ACCORDING TO THE COMMON 1. CHECK MENU PROCEDURE.



## **FUEL LEAK CHECK**

EN01N80ZZZ060102006017

PERFORM THE CHECK ACCORDING TO THE COMMON 1. CHECK MENU PROCEDURE.



# ACCELERATOR SENSOR ADJUSTMENT FOR RUNNING

EN01N80ZZZ060102006018

1. PERFORM THE CHECK ACCORDING TO THE COMMON CHECK MENU PROCEDURE.



SHTS80ZZZ0600061

## **PCS OPERATION CHECK**

EN01N80ZZZ060102006019

1. PERFORM THE CHECK ACCORDING TO THE COMMON CHECK MENU PROCEDURE.



SHTS80ZZZ0600062

## **EBS LAMP INITIALIZATION**

EN01N80ZZZ060102006020

- 1. PERFORM THE CHECK ACCORDING TO THE COMMON CHECK MENU PROCEDURE.

## DATA MONITOR AND ACTIVE TEST

#### DATA MONITOR

EN01N80ZZZ060102007001



1. ON THE DISPLAYED TREE, SELECT THE "System" OR "DTC" AND FROM THE TAB LIST SHOWN TO THE RIGHT, SELECT THE [Data monitor and Active test] TAB. (Diagnosis main window)

2. PRESS THE [Data monitor Setting] BUTTON. (Data monitor and Active test tab)

#### HINT

Depending on the selected DTC, the recommended monitor signal line may be preset.



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SHTS80ZZZ0600065

3. FROM THE "All signal list", SELECT THE SIGNAL TO MONI-TOR.

(Data monitor and Active test tab)

#### HINT

- To select the signal, double-click the item in the all signal list or press the [>] button.
- Clicking the [>>] button selects the maximum number of monitor signal lines (32 lines).
- Pressing the [<] or [<<] button deletes the selected signal lines.
- Pressing the [→]/[←] button of the keyboard adds/deletes the signal lines.
- To select the displayed color of a signal line, double-click the color of the signal line.
- Pressing the [▲] or [▼] button changes the order of the selected signal lines.
- Pressing the [Save] or [Read] button saves the created signal settings or reads the saved settings.
- To set a trigger, press the [Trigger Configuration] button.



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SHTS80ZZZ0600069

[Input date monit	tor file name window/[CC0213].[During the simulation]
	come name mindon (Sector) (sound are similated)
Input File Nar	me
Save folde	r C:¥HinoServiceApplications¥HinoDX2¥Monitor Browse
File Name	DATA 20140120 1123 1
	DATA_20140120_1120
	OK Cancel
1	
	SHTS907770600070

4. SET THE SIGNAL FOR WHICH YOU WOULD LIKE TO SET THE TRIGGER, AND SET THE SETTING VALUE. THEN PRESS THE [OK] BUTTON.

#### (Trigger configuration screen)

- · Select the rise or fall detection of the signal.
- When setting multiple triggers, select the combination method.

CLICK THE [OK] BUTTON TO CLOSE THE DATA MONITOR 5. **ITEM SELECTION SCREEN.** (Data monitor and Active test tab)

6. PRESS THE [Start] BUTTON. (Data monitor and Active test tab)

THE MONITOR DATA SAVE DIALOG APPEARS. SPECIFY THE 7. NAME OF THE FILE IN WHICH TO SAVE MONITOR DATA AND PRESS THE [OK] BUTTON. (Data monitor and Active test tab)

#### HINT

- · To change the destination folder, press the [Browse] button and specify the folder.
- Specify the file name in the following manner: "DATA YYYYMMDD HHMM" + Sequential number. The sequential number is automatically assigned but cay be changed.

8.

HINT



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#### Pressing the [Set timestamp] button during monitoring sets a time stamp in the data. Setting a time stamp allows you to use time stamp jump while data monitor is stopped or when the saved data is read.

(Data monitor and Active test tab)

DATA MONITOR STARTS AND A GRAPH IS DISPLAYED.

## SWITCHING THE GRAPH DISPLAY MODE

1. PRESS THE [Display change ocer] BUTTON. (Data monitor and Active test tab)



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2. THE SCREEN CHANGES TO THE OVERLAPPING DISPLAY MODE. (Data monitor and Active test tab)

#### HINT

- All signals are overlapped with one another in one graph.
- Pressing the [Display change over] button again displays each graph separately.



ENLARGING MONITORED DATA

1. CLICK THE MAGNIFIER ICON. (Data monitor and Active test tab) 2. DATA WILL BE MAGNIFIED. (Data monitor and Active test tab)

#### HINT

- Clicking the [x] icon at the lower left of an enlarged view dialog closes two or more enlarged view dialogs at a time.
- Clicking the [Dialog] icon at the lower left of an enlarged view dialog aligns two or more enlarged view dialogs.

- 1. PRESS THE [Compare] BUTTON.
- I. PRESS THE [Compare] BUTTON. (Data monitor and Active test tab)

- 2. SELECT A FILE AND PRESS THE [Open] BUTTON. (Data monitor and Active test tab)
- 3. THE DATA MONITOR COMPARISON SCREEN APPEARS IN THE UPPER AREA OF THE CURRENT GRAPH. (Data monitor and Active test tab)

#### HINT

The data monitor comparison screen can be displayed not only during data monitoring but also other times. See "Read Compare Data."











4. TO STOP DATA MONITOR, PRESS THE [Stop] BUTTON. (Data monitor and Active test tab)

PARTIAL SAVING OF MONITOR DATA

PRESS THE [Save partial data] BUTTON. (Data monitor and Active test tab)

(Data monitor and Active test tab)

#### SHTS80ZZZ0600079

1.

2.



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[Data monitor error window.][SC0214]

WHEN AN ERROR MESSAGE APPEARS DURING DATA MONITOR

CLICK THE START AND END POINTS OF THE AREA YOU

WOULD LIKE TO SAVE ON THE GRAPH AND SAVE THE FILE.

- Data monitor start error
  - Phenomenon: An error message appears immediately after data monitor is started.
  - Remedy: Check connections with the interface and vehicle and check that the key switch is ON.
- Data monitor communication interruption error.
- Phenomenon: During data monitor execution, an error message appears suddenly.
- Remedy: Check the settings and connections. Note that an improper connection causes the message to appear.

## **ACTIVE TEST**

1.

Diagr Location Information and Schematic m pro data Active test Setting Data monitor Setting U.N.



PRESS THE [Activ test Setting] BUTTON. 2. (Data monitor and Active test tab)

THE [Data monitor and Active test] TAB.

(Diagnosis main window)

ON THE DISPLAYED TREE, SELECT THE "System" OR "DTC"

AND FROM THE TAB LIST SHOWN TO THE RIGHT, SELECT



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**READING OF ACTIVE TEST LIST STARTS.** 3. (Active test signal reading progress screen)



FROM THE LIST, SELECT THE ACTIVE TEST YOU WANT TO 4. EXECUTE, SELECT OR ENTER THE INDICATED VALUE, AND PRESS THE [Select] BUTTON. (Select active test items window)

HINT

- Checking the box allows you to select multiple items.
- · The selected and highlighted item is the one to be executed first.
- · Double-clicking the item also displays the next screen.



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5. THE DISPLAY MOVES FROM THE ITEM LIST TO THE ACTIVE TEST EXECUTION DIALOG. PRESSING THE [+] BUTTON DISPLAYS ITEMS OTHER THAN THOSE SELECTED IN 4 ABOVE. (Active Test execution window)

#### HINT

- For ECUs capable of simultaneous processing, the data monitor can be set and executed on this screen.
- To go back to the list and select another item, press the [Back] button.
- THE SELECTION ITEM LIST IS DISPLAYED. (Active Test execution window)
  - (1) Clicking another item changes the execution target.
  - (2) To execute the active test, press the [Start] button.

7. A WARNING BEFORE ACTIVE TEST EXECUTION APPEARS. (Active Test execution window)

#### HINT

The screen may not be displayed depending on the item.



8. TO STOP THE ACTIVE TEST, PRESS THE [Stop] BUTTON. (Active Test execution window)

tem name	Upper lim	iit Lower limit	Spec d value	9 Unit
jection stop cylinder; cylinder No.5		-	- Stop	•
7		Start	Stop	Back
Item name		Upper limit	Lower limit	Unit
Item name		Upper limit	Lower limit	Unit
Injection stop cylinder; cylinder No.1		-	-	
Injection stop cylinder, cylinder No2		-	-	
Injection stop cylinder; cylinder No.3		-	-	
Injection stop cylinder; cylinder No.4		-	-	
Injection stop cylinder; cylinder No.6		-	-	



# WHEN AN ERROR MESSAGE APPEAR DURING ACTIVE TEST EXECUTION

- Active test start error Phenomenon: An error message appears immediately after an active test is executed. Remedy: Check connections with the interface and vehicle and check that the key switch is ON.
  Active test execution error
  - Active test execution error Phenomenon: An error message appears suddenly during active test execution.

Remedy: Check the settings and connections. Note that an improper connection causes the message to appear.

## **PROTECTED DATA**

## **PROTECTED DATA**

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- 1. ON THE DISPLAYED TREE, SELECT THE "System" OR "DTC" AND FROM THE TAB LIST SHOWN TO THE RIGHT, SELECT THE [System protection data] TAB. (Diagnosis main window)
  - (1) Reading of protected data starts.

- Balance (Bill State (Bill State)
   Belling (Bill State)
   Bell
- 2. THE PROTECTED DATA SCREEN IS DISPLAYED. (System protection data tab)

#### HINT

When a DTC is selected, only the relevant items are displayed.

elected Equipment 3 Engine J08E-VB 89683-E312					Custo	Customization		Back menu		New Disgnosis	
DTC information Diagnostic flow Location Inspection				Menu	Data mon Active	itor and test	System protection data				
Engine	Malfunct	ion of VNT actuator							Help	Print	List
	Dev	Device protection item Differential pressure sensor clogging identification			Value I OFF		Unit		Write to	ECU	-
	Diffe										٠.
	Diffs	Differential pressure detection DPR material loss identification				OFF					- 11
	Terr	Temperature determination DPR material loss identification				OFF					
	Cata	Catalyst deterioration identification of catalyst				OFF					
	DPR	DPR abnormal overheat identification Abnormality identification in DEF quality Unea tank refill identification				OFF					
	Abro					0					
	🗉 Urea					0					
	Cate	Catalyst deterioration determination and catalyst restoration				0					
	DEF	DEF quality determination and catalyst restoration control in . DEF quality re-determination identification				0					
	DEF					0					
	Maxi	Maximum DEF injector temperature SCR system hot shutdown frequency			32 * 1		* F	F			
	SCR					0	Times				
	- Abri	Nonitor cumulated fuel addition valve injection quantity deter.			0	0 Times					

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3. TO RESET THE PROTECTED DATA, CHECK THE ITEM YOU WANT TO RESET AND PRESS THE [Reset] BUTTON. (System protection data tab)

HINT

The default values previously set are reset.

4. THE CONFIRMATION SCREEN APPEARS. CONFIRM THE CONTENTS AND PRESS THE [OK] BUTTON. (System protection data tab)

#### HINT

Pressing the [Cancel] button returns to the protected data screen.

5. THE RESET COMPLETION SCREEN IS DISPLAYED. (Reset comfirm window)

#### HINT

This message appears regardless of whether the writing is successfully completed or fails.



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lected Equipe	ent   Engine JUIE-VB IDINS-E	802			Custo	mization	Back	menu	New Diag	nosis
DTC information Diagno		low Location information and Schematic	Inspection	Menu	Data monitor and Active test		System protection data			
Endine M	bifunction of VAIT actua	tor.						Help	Print Lk	st
	Device protection ite	n.		Value		Link		Write to	FOU	ĥ
1	Differential pressure a	10,00	OFF	04101				1.		
	Differential pressure detection DPR material loss identification				OFF					11
10	Temperature determination DPR material loss identification				OFF			-		
10	Catalyst deterioration identification of catalyst				OFF					
	Initial identification for normal idling in case of long idling				0			Success		11
13	DPR abnormal overheat identification				OFF					11
13	Abnormality identification in DEF quality				0					
13	Urea tank refil identification				0					
15	Catalyst deterioration		0							
13	DEF quality determination and catalyst restoration control in				0					
13	DEF quality re-determination identification				0					
13	Maximum DEF injector temperature			32 * 1		* F				
10	SCR system hot shut	down frequency			0	Times				
13	Monitor cumulated fo	al addition valve injection qu	antity deter		0	Times				

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6. FOR THE ITEMS FOR WHICH RESETTING IS SUCCESSFULLY COMPLETED, "Success" IS DISPLAYED, AND FOR THE ITEMS FOR WHICH RESETTING FAILS, "Fail" IS DISPLAYED. (System protection data tab)