EG Diagnostic program user manual – Introduction

 Menu Path
 Introduction

 Description
 Composition of EG diagnostic program for ECU(Engine Control Unit) & DCU(Dosing Control Unit)



DOOSA

 Menu Path
 Installation

 Description
 Diagnostic program(SW) & UVIM(CAN communication tool) driver install

STEP 1



B	01 G2Scan - Select Install folder	
	DDT G2Scan will be installed to follo	wing folder,
	Click <install> to begin installation to To install to a different folder, Either Or, click <browse> and select anot</browse></install>	o following folder, enter install path, ner folder,
	Space needed: 174,625KBytes	
20	Install folder	Provence
		etall Cancel
Jastec Co, Ltd,		Stan
2 Installation of DI	DT G2Scan	
Installation of D	Installing DDT G2Scan,	×
Installation of D	JUT G2Stan	
C:t	owing file already exists in the folder #Windows\Wsystem32', enote di/6 1 7600 16385: 2009-7 14/10:15:	44.032Butec)
Ben	spons, and a, 1, rood, radas, 2008-1-14/16/16,	44,03209(85)
m	sports.dll(5.1,2600.0; 2012-7-11/10:23; 41.9	848vtes)
	No more query	
	Vac No óbo	rt
	Yes No Abo	rt
	Yes No Abo	rt
Jastec Co, Ltd,	Ves No Abo	ntAbort
Jastec Co, Ltd,	Yes No Abo	rtAbort
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Jastec Co, Ltd.	Ves No Abo	rtAbort
Jastec Co, Ltd.	Yes No Abo	rtAbort

✤ Sequence

1. Click "NEXT" or "YES" until completed message shown

Note

 Diagnostic Kit include SW CD, otherwise user asking accessibility for downloading to contact service manager



 Menu Path
 Installation

 Description
 Diagnostic program(SW) & UVIM(CAN communication tool) driver install

STEP 2



 Menu Path
 Installation

 Description
 Diagnostic program(SW) & UVIM(CAN communication tool) driver install





 Menu Path
 Installation

 Description
 Diagnostic program(SW) & UVIM(CAN communication tool) driver install



EG Diagnostic program user manual - User Registration

 Menu Path
 User Registration

 Description
 Diagnostic program required authentication number for activating tool



EG Diagnostic program user manual – Program setting

Menu Path Description Program user setting

Diagnostic program required initial set up before starting

		1. Setting
		- Language : > English / Korean - Communication Port (LIVIM driver
Start 🕐 Â	Setting	 COMxx(USBSER00) Delay : 2000 Temperature :
Data Monitoring	Language Temperature deg C 🗸	> degC, degF, Kelvin - Pressure > bar, hpa, kpa, psi
Snap Shot Analyzer	Communication Port Pressure bar	 Time : s(second) → after set up, click OK then program restart
Input/Output Test	Delay 2000 - Time	✤ Note
Re Programming	OK CANCEL	



EG Diagnostic program user manual – Program introduction

 Menu Path
 Program introduction

 Description
 Diagnostic program consist of several functions to verify engine condition, fault code detecting and resolving, test, ECU reprogramming



EG Diagnostic program user manual – Fault code

Fault Code

Menu Path Description

Fault code menu to find present or historic codes with trouble shooting guide for resolving



EG Diagnostic program user manual – Data Monitoring

 Menu Path
 Data Monitoring -> Data Monitoring 1

 Description
 Enables to check or logging sensors and service data values

Data Monitoring 1

> Data Monitoring 1 provide physical or data's which should measure lively to identify engine performance



Menu

- Snapshot : Service data logging
- > Auto start : Data logging automatically when fault code raising
- > Manual start : Data logging initiating when user click "Manual Start" and finishing when click "Stop"
- Graph : Displaying selected data as a graph
- Save as Excel : Extract data as excel
- Save Selection : Displaying selected data for users convenience
- Open Selection : open selection file which were stored by users

Indication

Note

 (1) Find : Keyword searching
 (2) Sel : Select
 (3) Service Data : Engine vitals
 (4) Value : Current or last time values when engine stop

Data Monitoring

EG Diagnostic program user manual – Data Monitoring

 Menu Path
 Data Monitoring -> Data Monitoring 2

 Description
 Enables to check or logging sensors and service data values

Data Monitoring 2

> Data Monitoring 2 provide flashing memory data (use Save as Excel to identify engine condition before engine run)

Stop		SI	napshot	Auto Start	Manual Start	Stop Fra	me =		
Fault Codes		ALL		🗸 💿 All 💿 Sel	Graph	Save as Excel 🕂	Save Selection	Open Select	ion
Data Monitoring				Find					
	-	Sel	Num	Service Data		Variable	Value	Unit	·
Data Monitoring 1			003	Last EGR closed position (AD Conversion	on)	P_L_Egr_close_pos_learnt_	nvv	880 ADcnt	
Data Monitoring 2			004	First EGR closed position (AD Conversi	00)	P L For close pos mean	DV0/	880 ADont	
Engine Data	E								
			013	Engine cycle counter array for Injector	1	P_L_Inj_pls_cnt_cycle_inj_i	nvv[0]	0 -	
Snap Shot Analyzer			014	Engine cycle counter array for Injector	3 (D18 = Injector 2)	P_L_Inj_pls_cnt_cycle_inj_i	1VV[1]	0 -	
Engine Test	843		045	The state of the second s	4 (D40 - 1-1-1-0)	D. I. Tot also and such tatio			
			015	Engine cycle counter array for Injector	4 (D18 = Injector 3)	P_L_INJ_pis_cnt_cycle_INJ_I	100[2]	0 -	
Input/Output Test	**		016	Engine cycle counter array for Injector	2	P_L_Inj_pls_cnt_cycle_inj_i	1VV[3]	0 -	
Port Poplacomont			017	All injectors pulse counter array for end	gine cycles	P L Inj pls cnt cycle nvv		0 -	
Part Replacement									
Re Programming			018	Injector 1 pulse counter array for Main	injection	P_L_Inj_pls_cnt_main_nvv	_0	0 -	
			019	Injector 3 pulse counter array for Main	injection (D18 = Injector 2)	P_L_Inj_pls_cnt_main_nvv	1	0 -	
CU Information			020	Injector 4 pulse counter array for Main	injection (D18 - Injector 3)	P L Ini ols cot main por	2	0	
EOL			020	injector + puise counter anay for Main	injection (D16 = injector 5)	r_c_nj_pis_cnc_main_nvv	-		
			021	Injector 2 pulse counter array for Main	injection	P_L_Inj_pls_cnt_main_nvv	_3	0 -	
			022	Pulse counter array for Main and After	pulses type Recovery value =	0 P L Inj pls cnt main nvv	4	0 -	

Menu

Indication

Note



EG Diagnostic program user manual – Engine Data

 Menu Path
 Engine Data 1 / 2 / 3

 Description
 Displaying engine sensors values





EG Diagnostic program user manual – Snap Shot Analyzer

 Menu Path
 Snap Shot Analyzer

 Description
 Displaying data which were logged by "Data Monitoring -> Snapshot"



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EG Diagnostic program user manual – Engine Test

Menu Path **Engine Test** Description Performance verification and for fault code trouble shooting

Stop		Run-up Test Shut-off Test	Test	Manual (Click)
ault Codes	Â	Compression Test	Run up test	Finite Run up test
ata Monitoring ngine Data		Injector Static Test IMV Dynamic Test	Shut off test	T SOT
nap Shot Analyzer		Injector Dynamic Test	Compression test	Compression
ngine Test nput/Output Test	***		Injector buzzing test	Euzzing
art Replacement			Injector static test	Tinj. Static
CU Information			IMV dynamic test	IMV dynamic
OL			Injector dynamic test	1

1enu

- Run up test Shut off test
- Compression test
- njector buzzing test
- njector static test
- MV dynamic test
- njector dynamic test
- ndication

lote

provide "HELP" bar to get manual for each test

Engine Test

EG Diagnostic program user manual – Input / Output Test

 Menu Path
 Input / Output Test

 Description
 Verifying electric parts condition





EG Diagnostic program user manual – Part Replacement

Menu Path Description Part Replacement -> ECU Change

Reset of last adaptive learning value which was stored in ECU for working efficiency.



EG Diagnostic program user manual – Part Replacement

 Menu Path
 Part Replacement -> C3I Injector Coding

 Description
 Injector has own identification code which known as C3I / C3I coding aim at to fit proper fuel quantity in between each injector.



EG Diagnostic program user manual – Reprogramming

Re-Programming Menu Path Description ECU Map file re-programming





EG Diagnostic program user manual – ECU Information

lenu Path	ECU Information		
escription	ECU Information		
Stop Fault Codes Data Monitoring Engine Data Snap Shot Analyzer Engine Test Input/Output Test Part Replacement Part Replacement Re Programming ECU Information	1 ECU Software 2 ECU Hardware 3 Engine Model 4 Flashing User Info. 5 Last Programming Date	DL03_LEA04_A04_UNF53E 28377296 40511425 D34BEDL03-001518LCF03 002099890000 15-03-17	 Menu ECU Software : ECU Map information Engine Hardware : ECU serial lot No. Engine Model : Engine Model + Serial + Suffix Flashing User Info : Last person who modifying ECU Last Programming Date : Date of Modification Note
EOL			



EG Diagnostic program user manual – EOL (DeSOx)

Auto Start

Graph

Menu Path Description EOL -> DeSOx(Only for SCR Type EG)

DeSOx for engine with SCR

DeSOx

> Increasing exhaust gas temperature in order to desulphurization of SCR catalyst

Stop	_
Fault Codes	Â
Data Monitoring	
Engine Data	
Snap Shot Analyzer	=
Engine Test	8-3
Input/Output Test	***
Part Replacement	
Re Programming	
ECU Information	
EOL	
Variant Coding	
DeSox(Only for SCR Ty	pe EG)

Message	Desc	Value	Unit
IN_Engine_cycle_speed	Engine speed	0	rpm
P_T_Dpf_model_soot_mass_nvv	Total soot mas inside the DPF calulated ba	0.0	g
P_T_Regen_state	Regeneration state	00	
FQD_Chkd_post1_fuel_dmnd	Post 1 fuel inection quantity	0	mg/stroke
FQD_Chkd_post2_fuel_dmnd	Post 2 fuel inection quantity	0	mg/stroke
FQD_DPF_REGEN_TARGET_TEMP	Target DOC out temperature (DeSox Mode)	90.0	deg C
P_L_DPF_REGEN_INHIBITED	Regen switch is the inhibited state	00	0

Help

Stop

<< Condition >> 1) Engine : Running 2) Coolant Temp : over 40 degC 3) Auto Regeneration : false 4) Pedal Position : Below 5% 5) Parking Brake : Brake On

- DeSOx for
 - Forced DeSOx by Driver or Service Engineer
 - Replacing SCR Catalyst
 - Replacing ECU
 - > When it end, after treatment system NVM(non-volatile memory) to be removed.

DeSOx Test Mode



