

GLDS 2.0 Introduction & Operation

CONTENTS



I. Overview

- II. Software Installation
- III. Account login
- **IV.** Diagnosis Function
- V. Software
- VI. Setting

Overview

GLDS Geely Diagnostic System is online diagnostic system, suit for all the vehicles which base on Geely 2.0 electrical architecture.

- Online diagnostic
- Online software upgrading
- Online coding the ECU
- Online matching key
- Online wiring diagram
- ...







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Installation Requirements



Laptop Requirements:

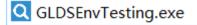
OS: Windows 10/11

RAM: above 8GB, suggest 16GB

HDD: above 400GB

Before install the GLDS software on one laptop, could carry out a small test. Run a small program, the program will

check whether the network and hardware meet installation requirements.



Copy the program to the laptop, double click this small program, the result will show.

Q D:\4. 诊断仪&专用工具\GNDS管理文件\GndsEnvCheck.exe	Q C:\Users\yangjian.chen\Desktop\新建文件夹\GndsEnvCheck.exe
gnds-api-cn.geely.com ping statistics 10 packets transmitted, 10 packets received, 0 duplicates, 0% packet loss round-trip min/avg/max/stddev = 26.6234ms/35.352221ms/52.2615ms/7.189653ms PING www.qc.com (10.91.42.232): [Please wating] 32 bytes from 101.91.42.232: icmp_seq=0 time=35.224ms ttl=-1 32 bytes from 101.91.42.232: icmp_seq=2 time=21.7322ms ttl=-1 32 bytes from 101.91.42.232: icmp_seq=2 time=43.8618ms ttl=-1 32 bytes from 101.91.42.232: icmp_seq=3 time=43.8618ms ttl=-1 32 bytes from 101.91.42.232: icmp_seq=4 time=35.4167ms ttl=-1 5 packets transmitted, 5 packets received, 0 duplicates, 0% packet loss round-trip min/avg/max/stddev = 21.7322ms/34.17292ms/43.8618ms/7.09234ms [====================================	<pre>12 bytes from 47.110.38.71: icmp_seq24 time=12.48ms ttl=-1 32 bytes from 47.110.38.71: icmp_seq24 time=13.6274ms ttl=-1 32 bytes from 47.110.38.71: icmp_seq25 time=14.9336ms ttl=-1 32 bytes from 47.110.39.71: icmp_seq26 time=14.485ms ttl=-1 32 bytes from 47.110.39.71: icmp_seq26 time=12.24974ms ttl=-1 32 bytes from 47.110.39.71: icmp_seq26 time=12.24974ms ttl=-1 32 bytes from 47.110.39.71: icmp_seq26 time=12.481ms ttl=-1 gnds-api-on.geely.com ping statistics 10 packets transmitted, 10 packets received, 0 duplicates, 0% packet loss round-trip min/avg/max/stddey = 11.091ms/12.571691ms/14.9336ms/1.329727ms PING www.qq.com [00.244.211.81: icmp_seq20 time=14.9418ms ttl=-1 32 bytes from 109.244.211.81: icmp_seq20 time=14.4656ms ttl=-1 32 bytes from 109.244.211.81: icmp_seq20 time=14.4656ms ttl=-1 32 bytes from 109.244.211.81: icmp_seq25 time=14.4656ms ttl=-1 32 bytes from 109.244.211.81: icmp_seq25 time=14.665ms ttl=-1 32 bytes from 109.244.211.81: icmp_seq25 time=14.785ms ttl</pre>
[[Memory]>Total system memory at least 8GB]	32 bytes from 109,244.211.81: icmp_seq=3 time=14.7852ms ttl=-1 32 bytes from 109.244.211.81: icmp_seq=4 time=15.1419ms ttl=-1
[] [Test Res. t] [Fail!!! This computer cannot be properly used for the GNDS client!]	- State Con Constitution 5 packets transmitted, 5 packets received, 0 duplicates, 0% packet loss round trip min/avg/max/stddev = 13.4793ms/15.36276ms/18.46566ms/1.657383ms
Failed and reason.	[] [] [] [Success!!! This computer can be installed the GNDS client normally!]
	Press any key to end the test





Installation Package Download: <u>https://ota-public-all.geely.com/gnds/GLDS2.0-I-Setup.exe</u>



	Diagnostic System	- 0 *
		Login English ~ Change/reset password Login
Version: 1.16.0.3		Zhejjang Geely Holding Group Copyright Lücense Agreement



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Account Registration and Renewal



Account registration and renewal are 500USD/year/account, and the spare part number is 4114720900.

When submit the order, remark the necessary information please.

Example

- Registration (submit an order to create a new GLDS account):
- GLDS account creating
- Username (including first name and last name)
- Email address
- Phone number

*Remark

GLDS account creating, Figar Xia, figar.xia@example.com, +86 18033335555

tha	GEELY Geely International DCS	Service Reports	Master Data			
the	☲	* Distributor	Select	∽ • Order Type	Select ~	* Arriva
	PO from Distributor to GAIC	* Transport Mode	Select	✓ Trade Clause	Select V	* Payment C
	Create &Search	* Consignee		 Consignee 		
	Ordering plan					
	Order estimation	* Address		* Country/Region	Select V	* Cui
	Purchase of spare parts	Customer Order No.		Fax		* Decla
	Pending Validation	Receipt or Not	Select	✓ Tax number		
	Order Status Tracking					
	Mismatch List	* Remark				
	Packaging Progress					é
	Order Calendar	Order Details Please Input Part NO	Mismatched			A
	Holiday Setting	Notice		t NO. Transport C	lassification Part N	
	R의 Inventory management ~					
• (Renewal (sub GLDS accoun GLDS accoun	t renewal		ve GLDS :	account rei	newal):

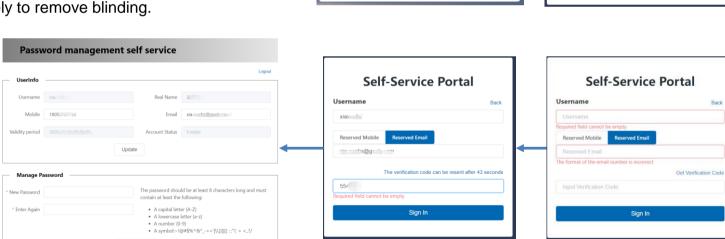
Account Login



- A new GLDS first time login, need to change the password, please refer to the steps.
- One GLDS account could login at one laptop only, and once login successfully, the account will be bound with this laptop.
- If reinstall the OS of laptop or change to other laptop, need to send email to Geely to remove blinding.

Save Password

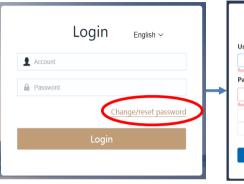
Create password and save



Fill Code then click sign in

Fill account and registered email, then click Get Verification Code





Required field cannot be empty Password	Forget Passw
Password	
Required field cannot be empty	
Reserved Mobile Number	eserved Email Get Verification C
Input Verification Code	



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Diagnosis Interface Introduction



1. Menu and Setting

- 2. Vehicle information
- 3. Control module list
- 4. Function

Diagnosis Soft	∆ Home ftware	FX11,	, P 2023 [®]		English ~	xiaxuefei)
(6	VIN: LB3FX Model / Year / Chassis: FX11 / P		Connect: virtual#0 I23 / 000809 Image: 14.9V Image: Driving	~
Components	ECU	All				'n
Service Functi	WDID	Address		DTC	Confirmed Unconfirmed All DTC	8 7
	4/228	1251	Head Up Display(HUD1251)		DTC	Status
	4/422	1A27	Seat Module Driver(SMD)		🛱 DHU1202-U113600 Interrupted Communication with Audio Module (AUD)	•
	4/46	1630	Engine Control Module(ECM)		DHU1202-U230056 Central Configuration- System Programming Failures- Invalid / incompatible configuration	
	4/176	1C01	Supplemental Restraint System Module(SRS)		R PSCM1670-U014087 Lost Communication With Central Electronic Module CEM- Bus Signal / Message Failures- Missing message	•
	4/521 🕇	1A30	Interior Light Control Module(ILCM)		VDDM-C100087 Hill Descent Control (HDC) Function- Bus Signal / Message Failures- Missing message	
	4/290	1BA0	Front Looking Camera(FLC1BA0)		VDDM-U101587 Lost Communication With Infotainment Head Unit (IHU)- Bus Signal / Message Failures- Missing message	
	4/218	1212	Audio Control Module(AUD)		VDDM-0101501 ESt Communication with motaliment near on (in O)- bus signal - wessage Paliotes- wissing message VDDM-B15E529 Brake Autohold Indication- General Signal Failures- Signal signal invalid	
4	4/423	1A28	Seat Module Passenger(SMP)		VDDM-b15c529 brake Autonoid indication- General Signal Failures- Signal signal invalid VDDM-U277808 Corrupted Data Received in EpbActvnReqSts Bus Signal / Message Failures	
	4/116	1A15	Power Operated Tailgate Module(POT)		ted VDDM-U277808 Corrupted Data Received in EpoActivinRegSts dus Signal / message Fallures	•
	93/4_142	1BB3	Headlight Control Module Left(HCML)			
	93/5_142	1BB4	Headlight Control Module Right(HCMR)			
	4/197	1633	Electronic Gear Selector Module(EGSM)			
	4/68	1672	Steering Angle Sensor Module(SAS)			
	4/667	1201	Display Head Unit(DHU1202)	2		
	6/163	1670	Power Steering Control Module (PSCM1670)	1		
	4/908	1001	Body Gateway Domain Module(BGM1001)			
	3/254	1B72	Steering Wheel Module(SWM)			
	4/28	1632	Transmission Control Module(TCM)		Read DTC Clear All	

Read DTC

- Choose Components, it will enter ECU, DTCs interface by default, and all the ECU DTCs will be displayed on the right side.
- When you select one ECU, the related DTC will be topped and highlighted.
- You can click "clear all" to clear the DTCs, and click "Read DTCs" to read those still exist.
- DTCs are divided into confirmed and unconfirmed, focus on those confirmed.
- Select one ECU, then click "All DTCs", you can check all the DTCs of this ECU.

agnosis Sot	oftware											atl 🛞	
4			VIN: LB3F	FX1S62F	PB000809 Connect: virtual#0				Source 2023-08-04 11:28-42 V				
6	0-0	3	Model / Year / Chassis: FX11 / P		2023 / 000809		14.9V					ng	
components	ECU	All	8		DTC	Document	Wiring Diagram	Parameter	Activation	Diagnostic Sequence	Image	ECU Identification	tion
Service Function	WDID	Address	Name	DTC	Confirme			5					
	4/228	1251	Head Up Display(HUD1251)		DTC	d Uncon	Infirmed All DTC						Statu
	4/422	1A27	Seat Module Driver(SMD)			2 1113600 lp	terrupted Communicati	ation with Audic	Module (AUD)-				Statu
	4/46	1630	Engine Control Module(ECM)							- Invalid / incompatible confi	figuration		
	4/176	1C01	Supplemental Restraint System Module(SRS)						-	CEM- Bus Signal / Messac	-	onessage painsi	
	4/521	1A30	Interior Light Control Module(ILCM)							ge Failures- Missing messa		Sing message	-
	4/290	1BA0	Front Looking Camera(FLC1BA0)										
	4/218	1212	Audio Control Module(AUD)							Bus Signal / Message Failu	res- Missing me	essage	
	4/423	1A28	Seat Module Passenger(SMP)				e Autohold Indication- G	-	-	-			
	4/116	1A15	Power Operated Tailgate Module(POT)			277808 Corrup	upted Data Received in	, EpbActvnReq:	¡Sts Bus Signa	JI / Message ⊢aiiures			•
	93/4_142	1BB3	Headlight Control Module Left(HCML)										
	93/5_142	1BB4	Headlight Control Module Right(HCMR)										
	4/197	1633	Electronic Gear Selector Module(EGSM)										
	4/68	1672	Steering Angle Sensor Module(SAS)										
	4/667	1201	Display Head Unit(DHU1202)	2									
	6/163	1670	Power Steering Control Module (PSCM1670)	1									
	4/908	1001	Body Gateway Domain Module(BGM1001)										
	3/254	1B72	Steering Wheel Module(SWM)										
	4/28	1632	Transmission Control Module(TCM)		Read DTC	Clear All							



DTC Information

Click the DTC to read the detail information







Status indicator	Status name	Description
•	Confirmed	Long duration fault detected many times by the in-vehicle DTC test. These faults have been detected long enough and enough number of times in order to be regarded as permanent. The DTCs associated with these faults are therefore regarded as confirmed. These faults have been detected by a selective and accurate detection principle during stable, known and controlled conditions. The advantage of detecting faults in this robust and accurate way is that they can be considered as verified and confirmed by the in-vehicle DTC test.
•	Pending	Long duration fault detected one or more times by the in-vehicle DTC test. These faults have been detected long enough but not enough number of times in order to be regarded as permanent. The DTCs associated with these faults are therefore not yet regarded as confirmed.
•	Failed	Long duration fault detected one time by the in-vehicle DTC test. These faults have been detected long enough but not enough number of times in order to be regarded as permanent. The DTCs associated with these faults are therefore not regarded as confirmed.

Wiring Diagram

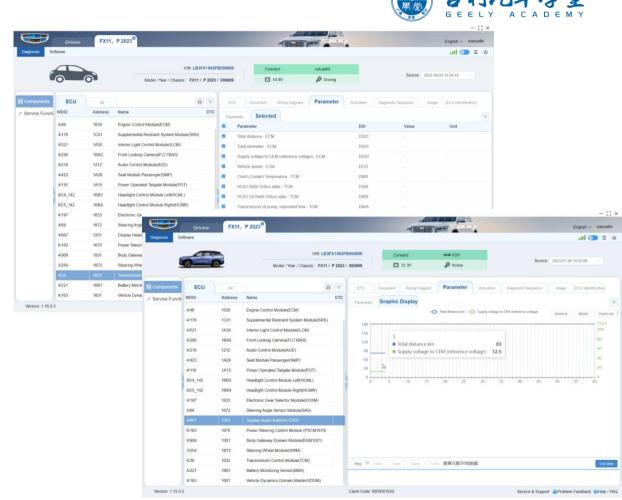
- Choose Components, select one ECM, click "Wiring Diagram".
- Right click component to check the component name, terminal definition, image, location, pinout interface.

gnosis Sof	tware							ati 💿 🗉
C			VIN: LB3F)	X1S62PB000809	Connect:	virtual#0		
	0	0	Model / Year / Chassis: FX11 / I	P 2023 / 000809	📫 14.9V	Driving	Source	2023-08-04 12:54:42 🗸
omponents	ECU	All	8	T DTC	Document Wiring Diag	gram Parameter Activation	Diagnostic Sequence	Image ECU Identification
ervice Functi	WDID	Address	Name	DTC				
	4/228	1251	Head Up Display(HUD1251)	Engine m	anagment system, VEP4 UAES	2 Engine thermal management A	Fuel supply control	Accessories BGM control
	4/422	1A27	Seat Module Driver(SMD)					Q ^ ¥ 8(
	4/46	1630	Engine Control Module(ECM)					
	4/176	1C01	Supplemental Restraint System Module(SRS)		- 1.05 ROBU 27110 - 1.5 ROBU		0.05 R0.50 06 15 Michael 15 Michael	10.10
	4/521	1A30	Interior Light Control Module(ILCM)		1.05 HORD	11 5.0 00 g	UCC224 1.5 BU	
	4/290	1BA0	Front Looking Camera(FLC1BA0)				2.00	
	4/218	1212	Audio Control Module(AUD)		1 180 W207 180 IPOINT 180 7/	15 00 00 00 00 00 00 00 00 00 00 00 00 00	icidName	
	4/423	1A28	Seat Module Passenger(SMP)				nponent c married at married	
	4/116	1A15	Power Operated Tailgate Module(POT)		1 100	- 475 KUVT 1430-22 475 KUVT	nal info	<u>; </u>
	93/4_142	1BB3	Headlight Control Module Left(HCML)			- as were a work as were a - Compo	nent image	1/14 (
	93/5_142	1BB4	Headlight Control Module Right(HCMR)		. 13.89 	1 10 10 10 10 10 10 10 10 10 10 10 10 10	j 131 0490	
	4/197	1633	Electronic Gear Selector Module(EGSM)	H <u>ò</u>				8-0_2
	4/68	1672	Steering Angle Sensor Module(SAS)		MALEN DOWN BORNE EN GOW PROVE		48. G	- 19736A
	4/667	1201	Display Head Unit(DHU1202)	2			1.00	• 9100A
	6/163	1670	Power Steering Control Module (PSCM1670)	1		38	1.00	IP105A IP105A
	4/908	1001	Body Gateway Domain Module(BGM1001)			<u>ин</u> - <u>из ком</u> нојки во комо		
	3/254	1B72	Steering Wheel Module(SWM)		11. 02/00 - 1 1/ 13. 02/00			
	4/28	1632	Transmission Control Module(TCM)		11. COM	10 01.17 01.27 01.17		

- - - ×

Parameter

- Choose Parameters to read the data stream.
- Select the needed options, click "Selected" and start recording the data stream of different control units at the same time.
- There are two modes: Graphical View or list view.
- On graphical view, we can save the data stream graphic and can open graphic saved before.



Activation

首利汽车停堂 GEELY ACADEMY

- [] X

 Choose Components, select one ECU, click "Activation", there will be come activations which can be realized by the selected ECU, select one activation and click start to test it.
 (Some ECU may not have activations)

nosis Sot	ftware						att 🥹	≡
			VIN: LB3FX156 Model / Year / Chassis: FX11 / P 202				Source 2023-07-26 14:03:06	
mponents	ECU	All	e a construction of the co		DTC Document Wiring Diagram Parameter Activation	Dia	gnostic Sequence Image ECU Identifie	cation
vice Functi	WDID	Address	Name DTG	C A	tivation		Alternative Options	
	4/46	1630	Engine Control Module(ECM)	н	CA1 Refill Orifice state - TCM		Please select	
	4/176	1C01	Supplemental Restraint System Module(SRS)	Н	CA1 Oil Refill Orifice state - TCM		Please select V	
	4/521	1A30	Interior Light Control Module(ILCM)	Ac	tual gear on input shaft 2 - TCM		Please select V	
	4/290	1BA0	Front Looking Camera(FLC1BA0)	Ac	tual gear on input shaft 1 - TCM	Please select V		
	4/218	1212	Audio Control Module(AUD)	In	out shaft engaged states - TCM	Please select A		
	4/423	1A28	Seat Module Passenger(SMP)				Shaft one neutralized	
	4/116	1A15	Power Operated Tailgate Module(POT)				Shaft two neutralized	
•	93/4_142	1BB3	Headlight Control Module Left(HCML)	4		3	Shaft one & two neutralized	
	93/5_142	1BB4	Headlight Control Module Right(HCMR)				Gear engaged	
	4/197	1633	Electronic Gear Selector Module(EGSM)					
	4/68	1672	Steering Angle Sensor Module(SAS)					
	4/667	1201	Display Head Unit(DHU1202)					
	6/163	1670	Power Steering Control Module (PSCM1670)					
	4/908	1001	Body Gateway Domain Module(BGM1001)					
	3/254	1B72	Steering Wheel Module(SWM)		Start			
	4/28	1632	Transmission Control Module(TCM)					
	4/221	1B61	Battery Monitoring Sensor(BMS)					
	4/163	1601	Vehicle Dynamics Domain Master(VDDM)					

Diagnostic Sequences

500 吉利汽车学 GEELY ACADE

- :: ×

Click to select the sequence, a new window will be opened, showing information, notes or warnings of this sequence, check these information and operate following the guidance to finish the sequence (usually related to calibration).

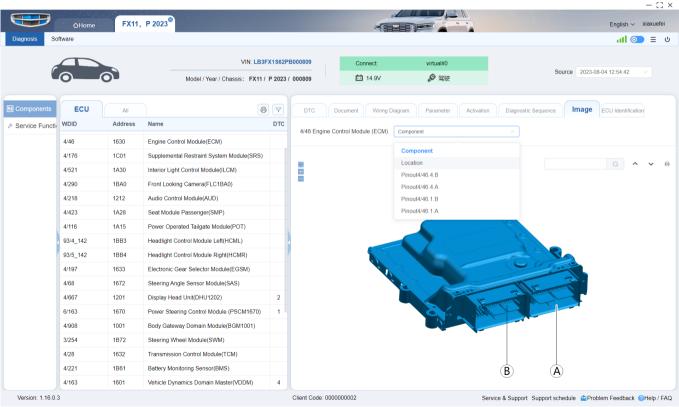
- For some commonly used sequences, you can click "Service Functions".
- Not all ECU has diagnostic sequences.

iagnosis Sol									= <u>(</u>) ltr		
G	40		VIN: LB3FX1	1 S62P	B000809 Connect	virtual#0		Source	Source 2023-08-04 12:54:42		
	0-0	0	Model / Year / Chassis: FX11 / P	2023	/ 000809 14.9V	🔊 Driving		Source 2	2023-08-04 12:54:42		
Components	ECU	All	8	7	DTC Document Wiring Diagram	m Parameter	Activation	Diagnostic Sequence	Image ECU Identificat		
Service Function	WDID	Address	Name E	DTC	Diagnostic sequence						
	4/46	1630	Engine Control Module(ECM)		5 7DCT transmission calibration						
	4/176	1C01	Supplemental Restraint System Module(SRS)		Clutch 1 pressure retaining test						
	4/521	1A30	Interior Light Control Module(ILCM)		Clutch 2 pressure retaining test						
	4/290	1BA0	Front Looking Camera(FLC1BA0)		B Clutch 2 pressure recoming rear						
	4/218	1212	Audio Control Module(AUD)								
	4/423	1A28	Seat Module Passenger(SMP)								
	4/116	1A15	Power Operated Tailgate Module(POT)								
	93/4_142	1883	Headlight Control Module Left(HCML)								
	93/5_142	1BB4	Headlight Control Module Right(HCMR)								
	4/197	1633	Electronic Gear Selector Module(EGSM)								
	4/68	1672	Steering Angle Sensor Module(SAS)								
	4/667	1201	Display Head Unit(DHU1202)	2							
	6/163	1670	Power Steering Control Module (PSCM1670)	1							
	4/908	1001	Body Gateway Domain Module(BGM1001)								
	3/254	1B72	Steering Wheel Module(SWM)								
	4/28	1632	Transmission Control Module(TCM)								
	4/221	1861	Battery Monitoring Sensor(BMS)								
	4/163	1601	Vehicle Dynamics Domain Master(VDDM)	4							

Image



- Choose image, show the component image.
- Click the option, to view it location, and Pinout.



ECU Identification



■ Read the ECU part number, hard version, software version.

Diagnosis So	oftware							≣ %
	6		VIN: L	VIN: L6T7TEST0HE0		Connect	P2P	
	9	87	Model / Year / Chassis: KX	/ 007721	🗂 11.9V	₽ 工作	Source 2023-01-02 15:06:27 V	
Network	ECU	All		8 7	DTC Docu	ment Circuit Diagram	Parameter Activatio	n Diagnostic Sequence Image ECU Identii
▲ Fault	WDID	地址	Name	DTC	序列号		00000182	· · · · · · · · · · · · · · · · · · ·
Billigment	4/314	1001	Vehicle Gateway Module(VGM)		总成号		8892818358 A	
Maintenance	4/313	1011	Telematics (TCAM)		硬件号		8892818705 A	
		1013	Driver Information Module(DIM1013)		诊断编号		8889066611 M	
	4/185	1201	Infotainment Head Unit(IHU1201)		软件编号		8894165672 A	
	4/185_1	1202	Infotainment Head Unit(IHU1202)		软件编号		8894165673 A	
	4	1241	Center Stack Display(CSD)		软件编号		8892830565 A	
		1244	Passenger side display(PSD)		软件编号		8893109435 A	
		1401	Active Safety Domain Master(ASDM)	3	软件编号		8892317399 A	
	4/290	1411	Front Looking Camera(FLC)	1				
	4/351	1430	Front Side Radar Right(FSRR)					
	4/352	1431	Front Side Radar Left(FSRL)					
	4/291	1444	Forward Looking Radar(FLR)	2				
	4/245	1450	Side Obstacle Detection Left(SODL)					



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Software Reload & Upgrade



- ① Software
- ② Reload & Upgrade
- ③ Control module
- (4) Add
- (5) Buy
- 6 Start download

It will download and reload & upgrade the software for the module automatically.

	0 -							The whole process will execute the following operations one after another;
				VIN: LB3FX1S6		Connect:	virtual#0	
			Model / Year /	r / Chassis: FX11 / P 20	/23 / 000809	📫 14.9V	🔊 Driving	Controller Pincode to write. Public key into controller.
Fin	d New Software							Public key into controller.
	Upgrade O Reload	0			0 7	Selected Software		
v	Jpgrade to Kolosa	•	Cosint years					
	ID	Name	Script vers ion	Description	Priority	ID	Name	
	GRI-00000350	FLC1BA0 Reload	2.00		1	GRI-00000435	TCM Reloa	Download VBF progress from
	GRI-00000360	HCML Reload	1.00		1		ļ	
	GRI-00000361	HCMR Reload	1.00		1		ļ	Download ECU software to car
	GRI-00000362	HUD1251 Reload	3.00		1		1	hrndress
	GRI-00000369	ILCM Reload	1.00		1		1	
	GRI-00000389	POT Reload	1.00		1		ļ	
	GRI-00000392	PSCM1670 Reload	1.00		1		I	
	GRI-00000412	SAS Reload	2.00		1		ļ	
	GRI-00000423	SMD Reload	2.00		1		ļ	Start Download
	GRI-00000425	SMP Reload	1.00		1	Buy Revoke	Cancel	Start Download 6
	GRI-00000430	SRS Reload	1.00		1	6	ŀ	
	GRI-00000432	SWM Reload	3.00		1			Controller Overload
	GRI-00000435	TCM Reload	4.00		1			
6	3 3RI-00000438	VDDM Reload	1.00		1			This test is used to complete the controller reload operation. The TCM
	GRI-00004335	DHU1202 Reload	3.00		1			whole reload process includes the following test contents Download complete Please check the results
	Add (4)							Controller software overloading.
16	ersion: 1.15.0.2				Client Code: 0000	0001000		Controller Pincode to write.
Ve	sion: 1.15.0.2				Cilent Code: 0000	.001620		Public key into controller.

Download VBF progress from server

Download ECU software to car

Test qualifie



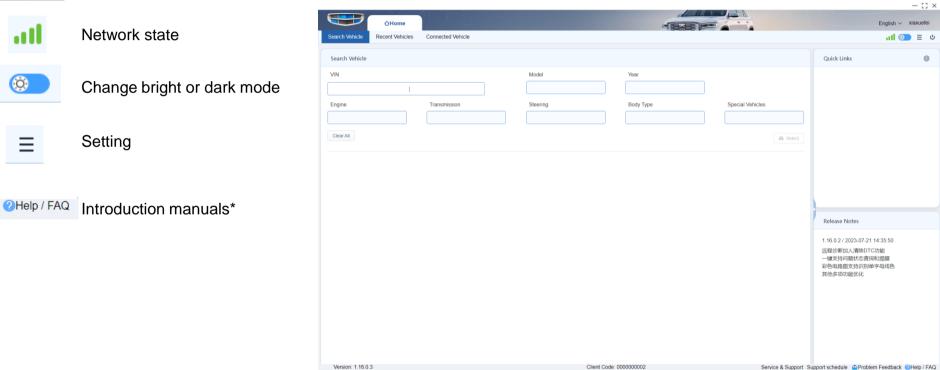
- I. Overview
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Setting



English ~

Change language English or Chinese



* Click Help to get a detailed introduction of GLDS

快乐人生吉利相伴 HAPPY LIFE GEELY DRIVE