### **Smartbox 3.0-J2534 Operation Manual**

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### **1** Connection of Smartbox3.0

Smartbox3.0 comes with a USB cable.

One end of Smartbox3.0 is connected to the USB cable: one port of the USB cable is connected to Smartbox3.0; the other port is connected to a USB port of a PC; the other end of Smartbox3.0 is connected to the OBD interface bus, and the other port of the bus is connected to the OBD connector.



2 Installation of Software Package and Driver

#### 2.1 Installation Steps of Software Package

2.1.1 Installation Steps of Software Package

Attention: Please ensure that the PC user has administrator

rights and Smartbox3.0 has been connected to a PC before

#### installation.

**Step 1:** Open "SmartBox\_3.0\_Setup.exe", and select the installation path according to prompts

Step 2: Click 'Change' to select the installation path, and then click 'Next'

SmartBox 3.0 Setup	×
Installation Folder Where would you like SmartBox 3.0 to be installed?	
The software will be installed in the folder listed below. To select a new path, or click Change to browse for an existing folder.	a different location, either type in a
Install SmartBox 3.0 to:	
C:\Program Files\SmartBox 3.D	Change
Space required: 23.2 MB	
Space available on selected drive: 16.94 GB	
	Next > Cancel

Step 3: After confirming the installation path, click 'Next'

- SmartBox 3.0 Setup	<b>×</b>
Ready to Install You are now ready to install SmartBox 3.0	
The installer now has enough information to install SmartBox 3.0 or	n your computer.
The following settings will be used:	
Install folder: C:\Program Files\SmartBox 3.0	
Please click Next to proceed with the installation.	
< <u>Back</u>	lext > Cancel

**Step 4:** Click 'Next' to start to install the driver. It is recommended to have the device connected before installing the driver. The software shall install by itself.



#### Step 5: Click 'Done'. Drivers installed!

Device Driver Installation Wizard						
	Completing the De Installation Wizard	vice Driver 1				
	The drivers were successfully in	stalled on this computer.				
	You can now connect your devi came with instructions, please re	ce to this computer. If your device ad them first.				
	Driver Name	Status				
	✓ libusbK Gadget Serial v2	Ready to use				
	< Back	Finish Cancel				

Step 6: Click 'Done' again. Software installed!

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#### 2.1.2 J2534 Registry Information View (Reserved)

After installing the software, LAUNCH's corresponding registration information about J2534Dll can be seen in the registry. Open "Run" window (shortcut "Windows+R"); enter the command "regedit", as shown below:

🖅 Run			×
	Type the name of a pro resource, and Windows	gram, folder, docur will open it for you	ment, or Internet
<u>O</u> pen:	regedit		•
	OK	Cancel	Browse

Enter the registry, and find LAUNCH's J2534 DLL registration information according to the following path: HKEY\_LOCAL\_MACHINE\SOFTWARE\PassThruSupport.04.04

📸 Registry Editor						
File Edit View Favorites Help	)					
⊳ 🦺 BCD0000000	<ul> <li>Name</li> </ul>	Туре	Data 🔦			
HARDWARE	(Default)	REG_SZ	(value not set)			
⊳ - 🎽 SAM	10 CAN	REG_DWORD	0x00000001 (1)			
SECURITY	CAN_PS	REG_DWORD	0x00000001 (1)			
SUFTWARE	ab ConfigApplicati	REG_SZ	C:\Program Files\SmartBox 3			
	80 FT_CAN_PS	REG_DWORD	0x00000001 (1)			
Classes	80 FT_ISO15765_PS	REG_DWORD	0x00000001 (1)			
Clients	EunctionLibrary	REG_SZ	C:\Program Files\SmartBox 3			
Intel	B GM_UART_PS	REG_DWORD	0x00000001 (1)			
Microsoft	HONDA_DIAGH	REG_DWORD	0x00000001 (1)			
DOBC	15O14230	REG_DWORD	0x00000001 (1)			
A 🛺 PassThruSupport.(	(≡ 🗱 ISO14230_PS	REG_DWORD	0x00000001 (1)			
LAUNCH	801SO15765	REG_DWORD	0x00000001 (1)			
Policies	8015765_PS	REG_DWORD	0x00000001 (1)			
RegisteredApplica	15O9141 🕺	REG_DWORD	0x00000001 (1)			
Þ 🦺 Sonic	80 ISO9141_PS	REG_DWORD	0x00000001 (1)			
⊳ J WOW6432Node	🐯 J1708_PS	REG_DWORD	0x00000001 (1)			
SYSTEM	80 J1850PWM	REG_DWORD	0x00000001 (1)			
		REG_DWORD	0x00000001 (1)			
P HKEY_CORRENT_CONFIG	' ← 🔡 J1850VPW	REG_DWORD	0x0000001(1) 👻			
4 III >>	•	III	4			
Computer\HKEY_LOCAL_MACHINE\S	SOFTWARE\PassThruSupp	ort.04.04\LAUNCH				

Note: It may be because of the 64-bit operating system, if you cannot view the registration information. You can find it according to the following path:

HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\PassThruSupport.04.04

The Screenshot is shown below:

I 🚺 Oracle		Name	Type	Data
Policies Registered Applications		ab (Defector)	type	( all a set of )
Software		(Derault)	REG_SZ	(value not set)
🚽 WanDry		CAN	REG_DWORD	0x0000001 (1)
WinRAR Wow6437Node	1	CAN_PS	REG_DWORD	0x0000001 (1)
b 360Safe		ab ConfigApplicati	REG_SZ	C:\Program Files\SmartBox 3
360SD		# FT_CAN_PS	REG_DWORD	0x00000001 (1)
Baidu		88 FT_ISO15765_PS	REG_DWORD	0x00000001 (1)
i- L Classes		ab FunctionLibrary	REG_SZ	C:\Program Files\SmartBox 3
Clients		SM GM UART PS	REG DWORD	0x00000001 (1)
niel		100 HONDA DIAGH	REG DWORD	0x00000001 (1)
LiveUpdate360		15014230	REG DWORD	0x0000001 (1)
Macromedia	E	15014230 PS	REG DWORD	0×0000001 (1)
MozilaPlugies		9015014250_15	REG_DWORD	0-0000001 (1)
00BC			REG_DWORD	0.0000001 (1)
PassThruSupport.04.04		10015015765_PS	REG_DWORD	
LAUNCH		1509141	REG_DWORD	0x0000001 (1)
Policies		ISO9141_PS	REG_DWORD	0x00000001 (1)
SogosInput		11708_PS	REG_DWORD	0x00000001 (1)
In Incent		11850PWM	REG_DWORD	0x00000001 (1)
SYSTEM		11850PWM_PS	REG_DWORD	0x00000001 (1)
UPEN OLIDICATI COMEIG	-	11850VPW	REG_DWORD	0x00000001 (1)
		1	111	

### **3** Firmware Upgrade and Log Generation

Run "SmartBox Tool 3.0" on the Windows desktop after installing "SmartBox\_3.0\_Setup".



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#### **3.1** Firmware Upgrade Function

SmartBox 3.0 can be upgraded through SmartBox Tool 3.0. Please select "M7 Upgrade" for the upgrading of lower programs and "A7 Upgrade" for the upgrading of the system. Click "Browse" to select the path for storing upgrading files and click "Upgrade".

A SmartPay Tool 2.0	
mg smartbox 10015.0	
FW upgrade View log USB mode	
Upgrade M7 Pls select file: C:\Users\launch\Desktop\M7\2018-7-23-J2534_OUT.bin	Browse
View Ver M7 upgrade completed!	Upgrade M7
Liberade A7	
Ple select file software 2018 10 14/update system 2018 10 14.zip	Browse
	browse
View Ver A7 system upgrade completed	Transfer file
	Upgrade A7
	Export log
Comm mode: USB to network Status: Connected	

Note: Restart the software and SmartBox 3.0 upon completion of the upgrade. You can check the version to confirm whether the upgrade is successful.

#### **3.2 Log View Function**

When necessary, you can enable "Write Log File" or "Window Print Information" function to record the test status of SmartBox 3.0 and the process. To avoid software errors due to overlarge log files, do not enable the function if it is not necessary. The log files are saved under the root directory of disk C by default.

**Steps:** The corresponding J2534Log information can be generated by ticking the "Write Log File" option after clicking "View Log" in the upper left corner of the software interface, as shown below:

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W upgrade	View log	USB mode		
		Log info	rite log file indow print info	
	100			

#### Note: Please restart the diagnostic software!

Note: If the log printing function is enabled, the log files may be very large as the information are written accumulatedly. Please enable this function when necessary, such as development and debugging. In other cases, please do not activate this function option at will.

The default storage path of the log file "J2534Log" generated is: C:\Program Files\SmartBox 3.0\SmartBox 3.0\Log\ J2534\_LOG.txt, as shown below:

				-		x
🚱 🔵 🗢 📕 🖉 Program I	Files  Fi	▶ Log    + ++	Search Log			P
Organize 👻 🦳 Open				#E •		0
🚖 Favorites	Name	Date modified	Туре	Size		
Desktop Downloads	12534_LOG	10/15/2018 3:55 PM	Text Document		0 KB	
Libraries Documents Music Pictures Videos						
Computer						
🙀 Network						
J2534_LOG Text Document	Date modified: 10/15/2018 3:55 PM Size: 0 bytes	Date created: 10/15/2018 3:54 F	M			

Also note: In some computer systems, users have no write permission to this file folder, resulting in unsuccessful log file generation. It is necessary to modify the permissions of this folder (requiring administrator privileges), as shown below:

- gennee 🚺 🖓 officir	include in library	· · · · · · · · · · · · · · · · · · ·	New Tolder			944 2	
Favorites	Name	-	Date mod	lified	Туре	Size	
🥅 Desktop	Drivers		10/15/201	L8 2:58 PM	File folder		
📕 Downloads	📕 J2534		10/15/201	18 3:11 PM	File folder		
🔄 Recent Places	🌡 Log 🛛	0	10/12/2016	8 3:55 PM	File folder		
	📕 lua5	Open		8 3:11 PM	File folder		
🗃 Libraries	闄 SmartBoxToo	Open in new window		8 3:11 PM	File folder		
Documents	🚳 lua5	Share with	+	1:57 AM	Windows Batch File		1 KB
J Music	📓 Uninstall	Restore previous vers	ons	1:58 AM	VBScript Script File		1 KB
Pictures		Include in library					
Videos		Send to					
Computer		Cut					
E computer		Conv					
Network		сору					
a staniary		Create shortcut					
		😌 Delete					
		🚱 Rename					
	1	Properties					
	Į.			1			

Right-click the "Log" folder, select the "Attribute" option and find the "Security" attribute, select current user, click "Edit", select the corresponding user name again, and tick all the "Allow" options in the permission column (requiring administrator rights), and click "OK" to go back.

🚶 Log Properties 💽	👃 Permissions for Log 🛛 🕰
General Sharing Security Previous Versions Customize	Security
Object name: C:\Program Files\SmartBox 3.0\SmartBox 3.0\Log	Object name: C:\Program Files\SmartBox 3.0\SmartBox 3.0\Log
Group or user names:	Group or user names:
& CREATOR OWNER	& CREATOR OWNER
Administrators (aunch-PC\Administrators)	SYSTEM
V Ileare (launch-PC\Ileare)	Administrators (aunch-PC \Administrators)
To change permissions, click Edit.	8 TrustedInstaller
Permissions for Administrators Allow Denv	
Full control	Add Remove
Modify 🗸	Pemissions for Administrators Allow Deny
Read & execute V E	Full control
Read	Modify
Write 🗸 🔻	Read & execute
For special permissions or advanced settings, Advanced	Read
Leam about access control and permissions	Leam about access control and permissions
OK Cancel Apply	OK Cancel Apply

#### 3.3 Communication Method Configuration (Reserved)

SmartboxTool can be used only when the USB mode configuration function is available.

#### 3.3.1 Communication Method Configured as USB

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Step 1: Open the configuration tool "SmartBoxTool":



Step 2: Click "View Log" in the upper left corner of the screen. It is in USB to Ethernet Adapter mode now. For USB bulk transfers, it is necessary to set the communication method from "USB to Ethernet Adapter" to "USB". Click "Setup".

🂑 SmartBox Tool 3.0		×
FW upgrade View log USB mode		
Set comm mode Comm mode: USB Setting USB: Please ensure the USB cable is connected! Do not unplug the cable before successful mode switch! Comm mode: USB to network Status: Connected		

Step 3: The setup is successful, as shown below:



Close the tool and re-power Smartbox3.0;

Check whether the USB device is recognized in the device manager of the computer. If yes, the setup is successful, as shown below:



Meanwhile, you can see the following information in the registry:

Enter "Regedit" in the Run Window. You can see that the value of Transfertype is 2 under the path HKEY\_CURRENT\_USER\Software\SmartBoxTool 3.0, which stands for the USB mode, as shown below:

A 📕 HKEY_CURRENT_USER	*	Name	Туре	Data
AppEvents     Console     Control Panel     Environment     EVDC     Identities     Network     Printers     Software     Costsoft     Software     Software	ш	(Default) 醚 LogFile 酏 LogFilePath 醚 Printf 醚 TransferType	REG_SZ REG_DWORD REG_SZ REG_DWORD REG_DWORD	(value not set) 0x0000000 (0) C:\Program Files\SmartBox 3.0 0x0000000 (0) 0x0000002 (2)
HKEY_CURRENT_CONFIG	+			

#### 3.3.2 Communication Method Configured as USB to

#### **Ethernet Adapter**

Step 1: Open the configuration tool "SmartBoxTool":



Step 2: Click "View Log" in the upper left corner of the screen. It is in USB mode now. If you want to set to "USB to Ethernet Adapter" mode, please set the communication method from "USB" to "USB to Ethernet Adapter". Click "Setup";

齢 SmartBox Tool 3.0					
FW upgrade View I	og USB r	node			
	Set com Comm USB to Please not unp switch!	m mode mode: USB network port: ensure the US lug the cable b	to network port B cable is connec efore successful r	Setting ted! Do mode	
Comm mode: USB		Status:	Connected		

Step 3: A window pops up. The setup is successful, as shown below:

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FW upgrade       View log       USB mode         Set comm mode       Comm mode:       USB to network port        Setting         USB to network       SmartBoxTool       Image: Mode set successfully!       o         Witch!       Mode set successfully!       o	

After the successful setup, there will be a "RNDIS NIC device" among the "Network Adapters" in the "Device Manager" of the computer (installed when installing network interface driver previously). There will be an extra local connection device in network connections. Click "Properties" to view "Details". The IPv4 address is 192.168.100.150, indicating that the network port connection has been established, as shown below:

Computer Management				
ile Action View Help	COO - E « Netwo	ork and Internet 🔸 Network Connections 🕨 👻	• +4	Search Network Connections
• 🔿 🙎 🖬 🖸 🔽 🖬 🕸 🕼	Organize 👻			9F - 1
A      A	Local Area Co cnlaunch.con Intel(R) PRO/	Innection Description Connection 2 Unidentified network USB Ethernet/RNDIS Gadget Retwork Connection Details	5	
Display adapters DVD/CD-ROM drives	General	Network Connection Details:		
Bound Interface Devices     IDE ATA/ATAPI controllers     Keyboards     Monitors     Monitors     Network adapters     Vise and other pointing devices     USB Ethernet/RNDIS Gadget     Sound, video and game controlle     System devices     Jourde Vises     Viversal Serial Bus controllers	Connection IPv4 Connectivity: IPv6 Connectivity: Media State: Duration: Speed: Details Activity Packets:	Property     Value       Connection-specific DN     local       Description     USB Ehnemet/RNDIS Gedget       Physical Address     00:59:77:1E-6F-BD       DHCP Enabled     Yes       IPv4 Address     192:168:100.150       IPv4 Address     Thursday, October 15, 2018 4:02:12 PI #       Lease Obtained     Monday, October 15, 2018 4:02:12 PI #       Lease Obtained     Monday, October 25, 2018 4:02:27 #       IPv4 DHCP Server     192:168:100.1       IPv4 DHCR Server     192:168:100.1       IPv4 DHCR Server     192:168:100.1       IPv4 DHCR Server     192:168:100.1       IPv6 Declus Gateway     Yes       Unklocal IPv6 Address     fee:00:0:0fff::11,11       IPv6 DEclus Gateway     100:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0		

Meanwhile, the following information can be seen in the registry:

Enter "Regedit" in the Run Window. You can see that the value of Transfertype is 1 under the path HKEY\_CURRENT\_USER\Software\SmartBoxTool 3.0, which stands for the USB to Ethernet Adapter mode, as shown below:

💣 Registry Editor					
File Edit View Favorites Help					
Þ 📙 EUDC 🔺	Name	Туре	Data		
▷ ······ Identities	(Default)	REG_SZ	(value not set)		
Network	80 LogFile	REG_DWORD	0x00000000 (0)		
▶ - 🚺 Printers	LogFilePath	REG_SZ	C:\Program Files\Sma		
Software		REG_DWORD	0x00000000 (0)		
⊳	and manarerrype	KEG_DWORD	0,0000001(1)		
D - in Classes					
Policies					
SmartBoxTool 3.0 ≡					
System					
Volatile Environment					
HKEY_CURRENT_CONFIG					
· · · · · · · · · · · · · · · · · · ·	•		•		
Computer\HKEY_CURRENT_USER\Software\SmartBoxTool 3.0					

Close the tool and re-power Smartbox3.0.