

## CAN BUS GUIDE

### Specification of SMART OBDII-16, OBDII - 16C and OBD CAN connector

1. SMART OBDII-16 connector is used for testing the vehicle without CAN BUS system (the 6 and 14 pin of 16PIN diagnostic socket is without sheet metal).
2. OBDII-16C connector is used for testing the non CAN BUS systems of the vehicle with CANBUS system (the 6 and 14 pin of 16PIN diagnostic socket is with sheet metal).
3. OBD CAN connector is used for testing CAN BUS system (the 6 and 14 pin of 16PIN diagnostic socket is with sheet metal).

### When is CANBUS connector used?

1. CANBUS connector must be used when scan with OBD CAN.
2. CANBUS connector must be used when testing CAN BUS systems of BENZ, VW, RENAULT, and MAZDA.

### CANBUS function list of make and system X-431 can scan

#### 1、VW

vehicle	CAN bus system	Diagnostic cable system	Control Unit Info	Read Fault Codes	Clear Fault Codes	Measuring Blocks
GOLF 5 AUDI A8 4.2L	CAN bus system	01 Engine electronics				
		11 Engine electronics 2				
		44 Steering assistance				
		05 ACCESS & PERMISSI.				
		21 Engine electronics 3				
		31 Engine Electronics Conjunct.				
		61 Battery control				
		02 Transmission Electronics				
		22 4WD Electronics				
		42 DRIVER-DOOR ELECT.				
		52 PASSE.-DOOR ELECT.				
		62 LR-DOOR ELECTRONI.				
		72 RR-DOOR ELECTRONI.				
		03 Brake Electronics				
		13 Distance control				
		53 Parking Brake				
		34 Self leveling suspension				
		15 Airbags				
		25 Immobilizer				
		55 Headlight range control				
		65 Type pressure monitoring				
		75 Emergency call module				
		06 PASSENE. SEAT ADJ.				
16 Steering Wheel Electronics						
26 Electric roof control						
36 Driver's side seat adj.						
46 Central Control Module						

	56 Radio				
	66 Seat-/mirror adjust.				
	76 Parking aid				
	1D Driver identify				
	3D Special Function				
	07 DISPLAY-/CNTL UNIT				
	17 Instrument Cluster				
	37 Navigation				
	47 Soundsystem				
	57 TV-TUNER				
	67 VOICE CONTROL				
	77 TELEPHONE				
	0E Media Player 1				
	1E Media Player 2				
	2E Media Player 3				
	3E Media Player 4				
	4E RR Control Unit				
	5E LR Control Unit				
	7E Instrument Cluster Display Unit				
	08 AC/Heating electronics				
	18 Aux heating				
	28 Climate Control Unit Rear				
	38 ROOF ELECTRONICS				
	7D Auxiliary Heater				
	09 Electronic Ctrl Electronics				
	19 Gateway data bus				
	69 TRAILER FUNCTION				
	0F Radio Tuner-Digital				
	1F Radio Satellite				
	2F TV Tuner-Digital				
	4F Central Electronics II				

## 2、NISSAN

system	Diagnosis system	Version inf.	Read DTC	Clear DTC	Data stream	actuation	Operate support	CAN monitor
CAN bus system	01 BCM							
	02 IPDM E/R							
	03 AT/CVT							
	04 Intelligent key							

## 3、MAZDA

	system	Read DTC	Clear dtc	Data stream
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CAN bus syytem	01 ENG			
	02 AT			
	03 IC			

#### 4、RENAULT

vehicle	system	Version	Read Codes	Clear Codes	Data Stream	Actuation
MEGANE II	petrol injection					
	a.b.s					
	variable p.a.s					
	instrument pannel					
	airbag pretensioners					
	passenger compartment unit					
	upc					
	diesel injection					

#### 5、BENZ

Chassis	Model	System	Version	Read Codes	Clear Codes	Data Stream	Actuation
220	S350	AB					
		CGW					
		SDS					
	ALL MODEL	CDI 3					
211	ALL MODEL	AB					
		CGW					
		SDS					
		ESM					
		EIS					
		BCM					
		HRA					
		SUSPENSION					
		HS					
		LCP					

		UCP					
		OCP					
		PASS_SAM					
		DR_SAM					
		REAR_SAM					
		IC					
		PTS					
		SCM					
		DCM_RR					
		DCM_RL					
		DCM_FR					
		DCM_FL					
		ESA					
		ESA_PASS					
		AAC					
		ESP					
		SBC					
		CDI 3					
203	ALL MODEL	CDI 3					

6、 FORD

vehicle	system	Version	Read Codes	Clear Codes	Data Stream	Actuation
FORD BA: 1. Ford FORT S 2. Ford FUTURA 3. Ford XR 4. Ford XT 5. Ford Fairlane 6. Ford Fairmond	PCM(powertrain control module)					
	BEM(body control module)					
	HIM(HAVC integrated module)					
	ICM(Instrument control module)					

	ACM(Radio control module)					
	RCM					
	ABS					
Explore 2004 4.6L	PCM(powertrain control module)					

## 7. VOLVO

vehicle	year	system	subsystem	part number	Version inf.	Read DTC	Clear DTC	Read expand DTC	Data stream	actuation
S60	2001	ECM	B5244S	09202809 B						
				08675856 A						
				03409475 A						
				09486414 D/E						
				08677944 A						
			B6304S3	09202904 A						
			B6294T	30641543 B						
			B6284T	09497805 A						
				09496652 A						
			B5204T4	09202903 A						
				09497803 A						
			B5204T3	09496654 A						
			B5244SG	08643785 A						
			TCM	AW55-50SN	09480596 A					
	08636002 A									
	08636008 A									
	4T65EV-GT	30651550 A								
	ABS		09496949 A							
			08651530 A							
			08685403 A							
	SRS		08622367 A							
			08622367 A							
	2002	ECM	B5244S	09202809 B						
				08675856 A						
				03409475 A						
				09486414 D/E						
08677944 A										
B6304S3			09202904 A							
B6294T			30641543 B							
B6284T			09497805 A							
			09496652 A							
B5204T4			09202903 A							
			09497803 A							
B5204T3			09496654 A							



		B6284T	09497805	A						
			09496652	A						
		B5244SG	08643785	A						
		B5204T4	09202903	A						
			09497803	A						
		B5204T3	09496654	A						
		TCM	AW55-50SN	09480596	A					
				08636002	A					
				08636008	A					
		4T65EV-GT	30651550	A						
	ABS		09496949	A						
			08651530	A						
			08685403	A						
	SRS		08622367	A						
			08622367	A						
	2000	ECM	B5244S	09202809	B					
				08675856	A					
				03409475	A					
				09486414	D/E					
				08677944	A					
B6304S3			09202904	A						
B6294T			30641543	B						
B6284T			09497805	A						
			09496652	A						
B5244SG			08643785	A						
B5204T4		09202903	A							
		09497803	A							
B5204T3		09496654	A							
TCM		AW55-50SN	09480596	A						
			08636002	A						
			08636008	A						
4T65EV-GT		30651550	A							
ABS			09496949	A						
			08651530	A						
		08685403	A							
SRS		08622367	A							
		08622367	A							
2001	ECM	B5244S	09202809	B						
			08675856	A						
			03409475	A						
			09486414	D/E						
			08677944	A						
		B6304S3	09202904	A						

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			B5244SG	08643785 A					
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		08622367 A							
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			B5244SG	08643785	A										
V70	2001	ECM	B5244S	09202809	B										
				08675856	A										
				03409475	A										
				09486414	D/E										
				08677944	A										
			B5204T4	09202903	A										
				09497803	A										
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			B6304S3	09202904	A										
			B6294T	30641543	B										
	B6284T	09497805	A												
		09496652	A												
	B5244SG	08643785	A												
	2002	ECM	B5244S	09202809	B										
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B6284T	09497805	A													
	09496652	A													
B5244SG	08643785	A													

## 8、 OBD CAN

OBD CAN can test engine system according to OBD2 & EOBD2 ISO15765-4(CAN) standard, functions include: read trouble code, clear trouble code, read dynamic data stream, read freezing frame and preparing test.

### How to get OBD CAN and CANBUS connector?

Please log on <http://www.x431.com> and download OBD CAN (free) diagnostic software, and buy X431 CAN diagnostic connectors from local filiale or dealer.