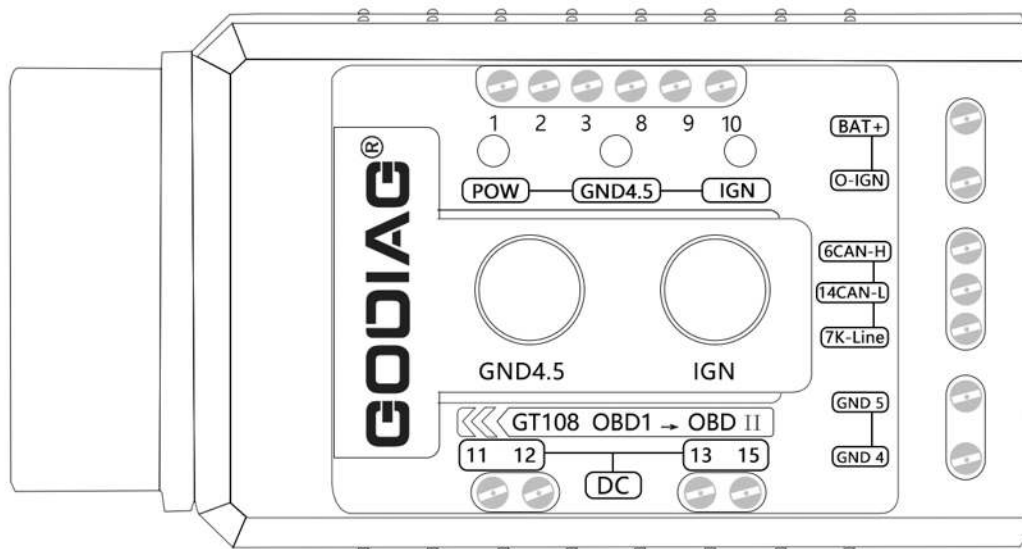**GODIAG**®

Godiag GT108

Super OBDI-OBDII Universal Conversion Adapter

For Cars, Trucks, Tractors, Mining Vehicles, Generators, Boats, Motorcycles, etc.

2023.8

1. Disclaimer

Please review the following statement carefully:

The statement can help you quickly learn how to use GODIAG products. Please abide by the relevant local laws. If you use the GODIAG equipment illegally, the user shall bear all the risks, and the company will not assume any responsibility.

For the safety of yourself and others, and to avoid damage to equipment and vehicles, please read the safety precautions carefully. Due to the variety of procedures, tools, parts and techniques used in vehicle maintenance, the variability in how personnel operate, and the variety of diagnostic programming applications, this manual cannot predict and provide safety recommendations for every situation.

It is the responsibility of the automotive service technician to get a thorough understanding of the system being tested and to use appropriate service methods and testing procedures reasonably.

When testing, you must use appropriate operating methods to avoid threats to yourself and others in the work area, as well as to avoid damage to the equipment being used or the vehicle being tested.

Before using the equipment, please refer to and follow the safety information and applicable test procedures provided by the vehicle or equipment manufacturer. Please use the equipment in accordance with the instructions in this manual, and read, understand and follow all safety information and instructions in the manual.

2. Safety Precautions

In order to protect the safety of yourself and others and prevent damaging the equipment and vehicles, please read the safety precautions carefully.

Since various programs, tools, parts and techniques are used for the vehicle maintenance and different operators may have different operations, due to various kinds of diagnostics compliers, the manual cannot predict every situation and provide related safety suggestions.

Vehicle service technicians are in charge of fully learning about the system under tests, and applying appropriate repairing approaches and testing programs.

When conducting tests, it's necessary to apply proper operations to avoid personal safety risks to yourself and other people inside the working area and prevent damages to the equipment in use or vehicles under tests.

Before starting to use the equipment, please refer to and observe the safety information provided by the vehicle or equipment manufacturer and applicable testing programs. Please use the equipment according to the Operation Manual, read, understand, and observe all safety information and instructions included in this manual.

Please at least observe the following safety precautions working at the vehicle:

◆ Please work at a safe environment where it's essential to keep the working area

ventilated since the vehicle exhaust is harmful to human bodies.

◆　　Wear goggles that meet the ANSI standard

◆　　Set the gear to P (auto) or N (manual) and guarantee the parking brake is enabled (hand brake pulled)

◆　　Make sure your clothes, hair, hands, and tools stay away from the operating engine parts or hot engine parts

◆　　Place bricks before each wheel to prevent the vehicle from moving accidentally

◆　　The vehicle must be attended during testing and operating

◆　　Pay special attention when working around the ignition coil, distributor cap, ignition wire, and ignition plug for that these parts can generate dangerous voltages

◆　　Make sure fire extinguishers suitable for the gas/chemicals/are electrical provided at the site

◆　　Do not plug or unplug the equipment when the ignition switch is on or the engine is working

◆　　Keep the equipment dry, clean, and avoid touching oil, water or grease. Use a clean cloth to clean the equipment.

◆　　Do not operate the diagnostic equipment during driving to avoid accidents owing to the distraction.

◆　　Please refer to the maintenance manual when maintaining the vehicle and operate strictly according to the precautions, otherwise it may cause human injury or damages to the diagnostic equipment.

◆　　Do not place the diagnostic equipment onto the distributor of the vehicle for that strong EMI may damage the equipment.

◆　　When replacing the battery with GT108, do not switch on the ignition switch or start the vehicle.

3. Product Introduction

GODIAG GT108 Super OBDI-OBDII universal conversion adapter can convert the OBDI diagnostic interface of cars, trucks, tractors, mining vehicles, generators, boats, motorcycles, individual ECU control units, etc. into standard OBDII diagnostic interfaces through DIY wiring Interface, convenient for car maintenance personnel to connect to OBDII diagnostic programming equipment for data streams reading, fault codes diagnosis, programming, activation and coding...

Product Features:

1. DIY wiring, it can be converted to OBDII according to the car diagnostic interface. [Because the definitions of diagnostic interfaces in different regions are inconsistent, the popular conversion cables and adapters in the market cannot use different definitions of diagnostic interfaces. GODIAG GT108 Super OBDI-OBDII can be used by maintenance engineers to connect according to their own needs]

2. The device has reverse connection protection. (If the power supply is connected wrong, the device will not burn out, and it will not cause harm to the OBDII diagnostic programming device.)

3. Independent GND4, GND5. (It is more suitable for judging the problem of poor grounding of some control units.)

4. Analog IGN switch. (Press the IGN switch, the corresponding port outputs ING VCC)

5. Power indicator, GND4, GND5 switching indicator, IGN switching indicator.

6. DIY the way to lock the wire. Equipped with different diagnostic interface cables, ECU cables, and locking screwdrivers.

7. Truck wiring kit, car and motorcycle wiring kit, (Different configurations of wiring kits are different, please purchase according to maintenance needs.)

4. Outlook
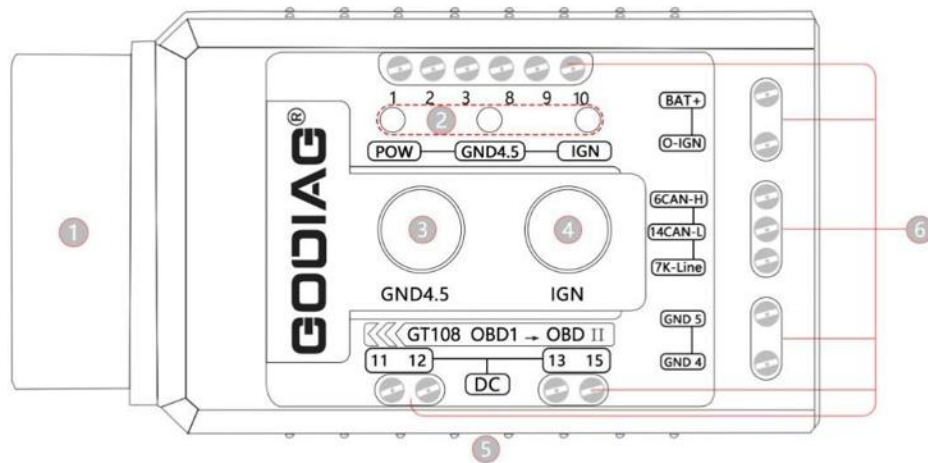
1. OBD2 female interface

2. Indicator light group

3.GND4. GND5 switch

4.IGN switch

5. DC power interface

6. 1.2.3.GND4.GND5.6CAN-H.7K-Line.8.9.10.11.12.13.14CAN-L. 15. BAT+.O-IGN interface

5. How to Use GT108

Steps:

1. Find the definition of the diagnostic interface (find the maintenance manual of your own vehicle, or search online.), or see the definition diagram of the corresponding diagnostic interface of the GT108 manual.

2. According to the interface definition, find out the connection line needed by your car, and connect to the GT108 adapter according to the definition. (Use a screwdriver to lock the terminal.)

3. Connect the connected diagnostic cable to the vehicle OBD1 diagnostic interface according to the definition. (Connect GND 4 or GND5 first, and then connect BAT+. If the power cable is connected correctly, the POW light of the GT108 host will light up. If the vehicle diagnostic interface does not have power, please connect the car battery to the DC power connector of GT108 with the battery cable. If the vehicle needs the ignition signal, connect the O-IGN line, and press the IGN switch, the corresponding IGN light will light up, and the O-IGN line will output the ignition power signal.)

4. Connect the communication line CAN or K-line to the diagnostic interface. (Note: If it is the truck diagnostic software added by the car diagnostic equipment, you need to buy a GT106 24V to 12V adapter.)

5. Connect the diagnostic device to start diagnosing the vehicle.

Note: If you cannot find the definition for your own vehicle diagnostic interface, you can first find out the power supply of the diagnostic interface. First use the black battery clip on the battery connection cable to connect the negative pole of the battery, and then use the BAT+ line to connect to the diagnostic interface to find the power supply. You can also use a multimeter to find the diagnostic interface power supply. The definition of the diagnostic interface can also be judged by the GT101 Pirt Electric Circuit Tester device.

How to Find Diagnostic Interface Definitions ?

View through vehicle manual, maintenance manual or GT108 manual.

Search for vehicle definitions online

According to the found interface definition, connect the corresponding diagnostic line according to the pin shape of the diagnostic interface.
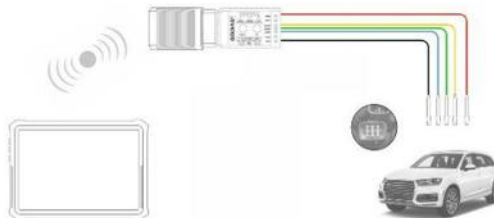
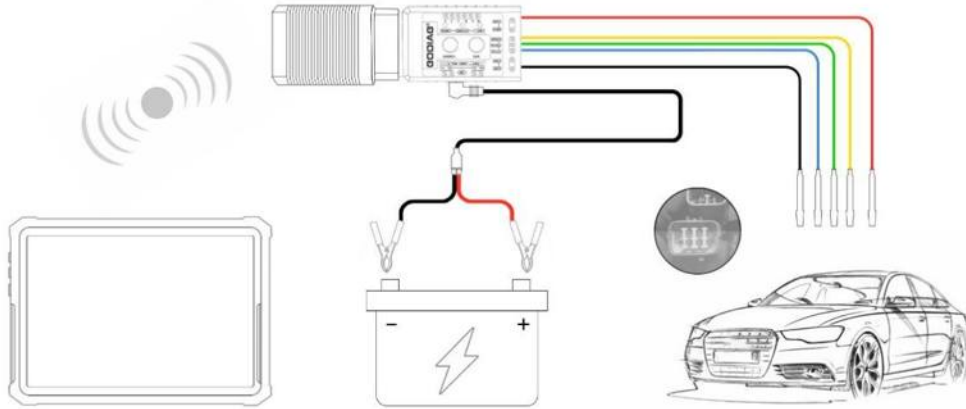Use the GT101 PIRT Electric Circuit Tester device to test the diagnostic interface.

Display status:
GND : 0V
VCC BAT+ : 12V
CAN : 1-5V (mostly 2.5V)
K-Line : Close to 12V
PWM : 10V
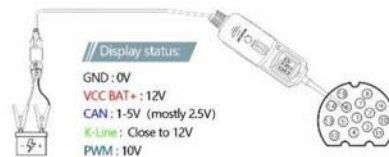
Connect GND first, then connect BAT+, you can see that the POW light of GT108 host will light up
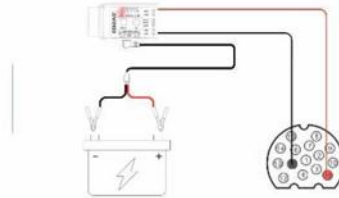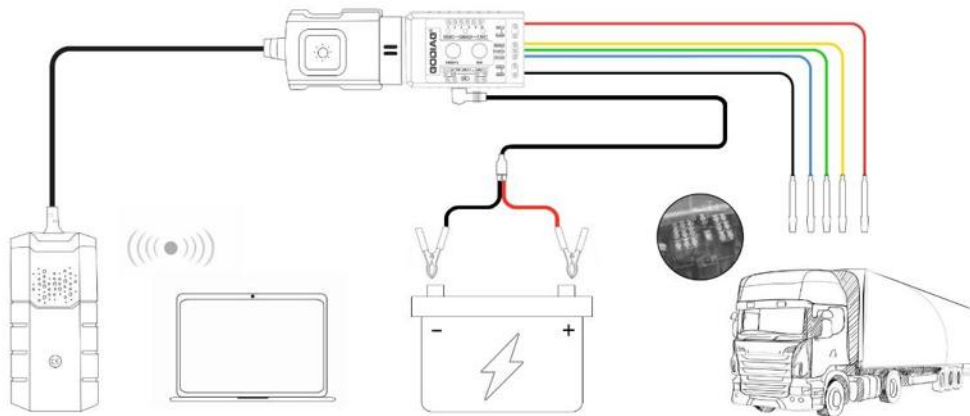
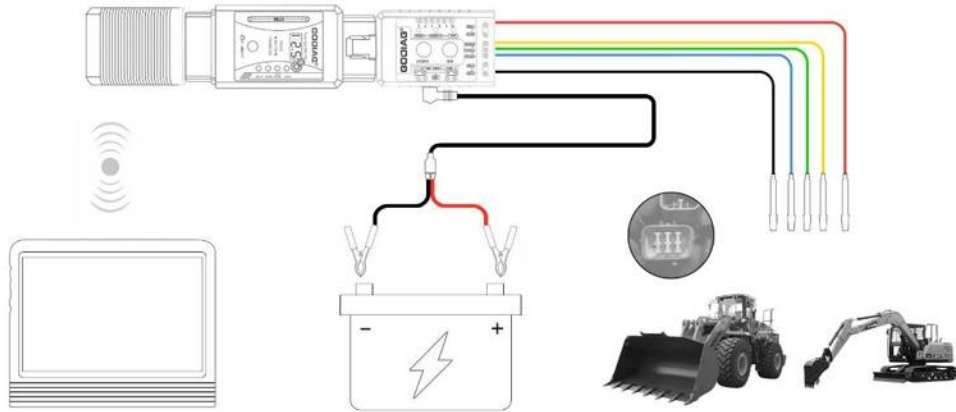## Connect the diagnostic equipment to start diagnosing the vehicle
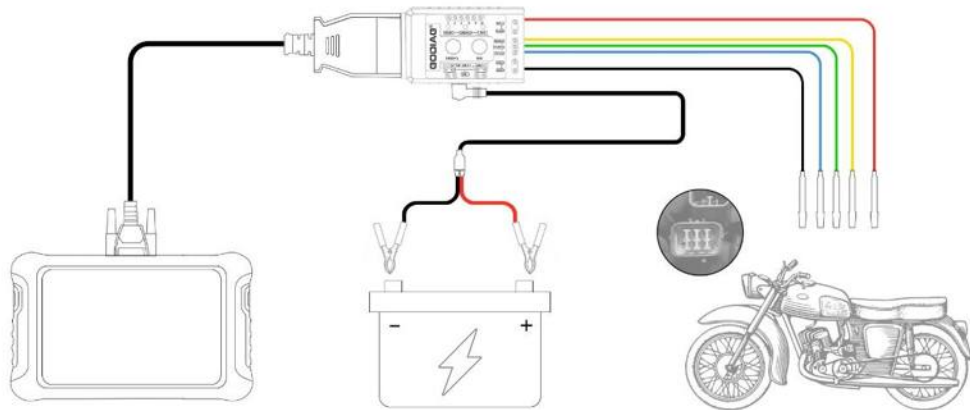
6. Car Connection Method
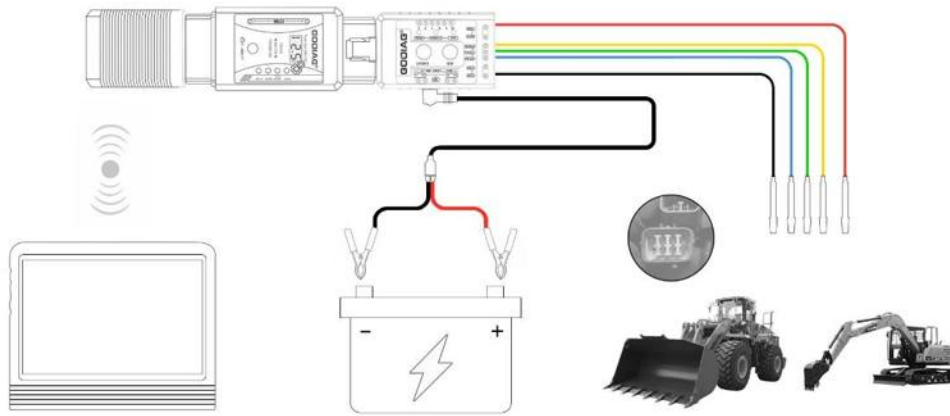

7. Truck Connection Method

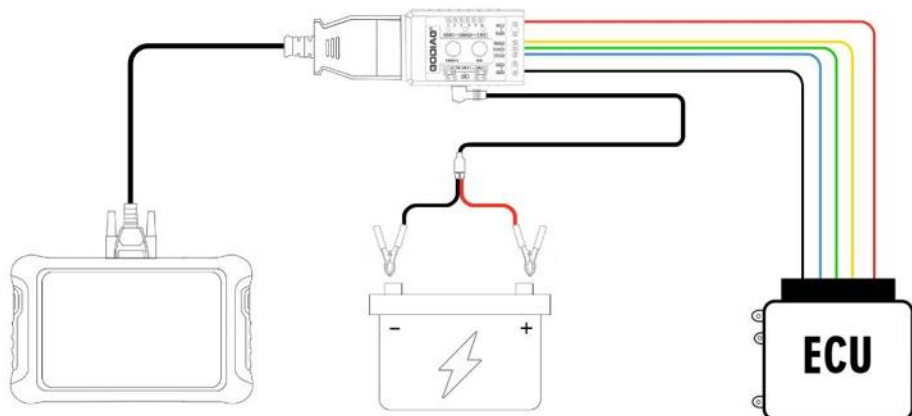# 8. Truck Connection with GT106

9. Motorcycle Connection Method

10. The Connection Method of Mine Vehicles, Tractors, Boats and Generators

11. ECU Connection Method

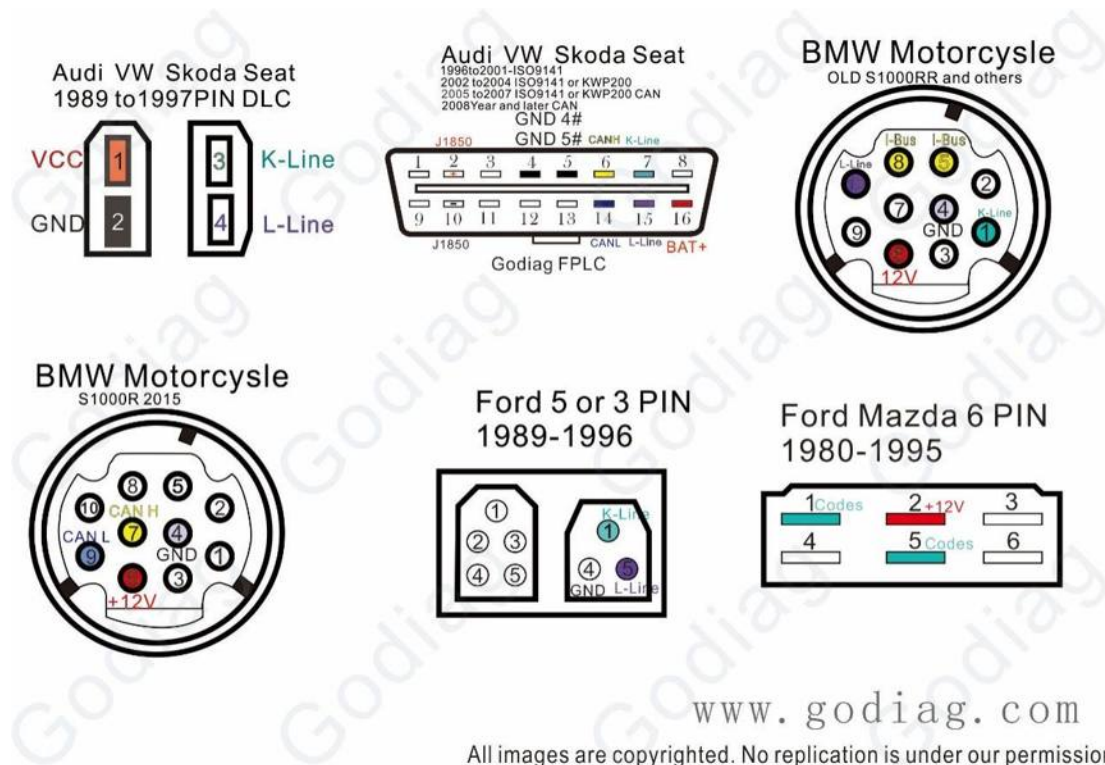# 12. Car Diagnostic Interface Definition

AUDI   VW   Skoda   Seat 1989-1997

AUDI   VW   Skoda   Seat 1996-2008

BMW Motorcysle OLD S1000RR

BMW Motorcysle S1000R 2015
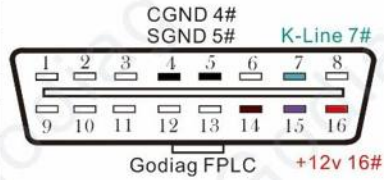
Ford 5or3 PIN 1989-1996

Ford Mazda 6PIN 1980-1995

AUDI

Audi car

PIN	Signal	Descrition
1		
2	J1850 Bus+	
3		
4	CGND	Chassis ground
5	SGND	Signal ground
6	CAN High	J-2284
7	K-LINE	
8		
9		
10	J1850 Bus-	
11		
12		
13		
14	CAN Low	J-2284
15	ISO 9141-2 L-LINE	
16	+12v	Battery power

CGND 4#
SGND 5#   K-Line 7#

Godiag FPLC   +12v 16#

BMW

BMW car

PIN	Signal	Descrition
1	+12V	Ignition(in run or start)
2		
3		
4	CGND	Chassis ground
5	SGND	Signal ground
6	CAN High	J-2284
7	ISO 9141-2 K-LINE	Engine
8	ISO 9141-2 K-LINE	
9	TD/RPM	Engine rotation speed
10		
11		
12		
13		
14	CAN Low	J-2284
15	ISO 9141-2 L-LINE	
16	+12v	Battery power
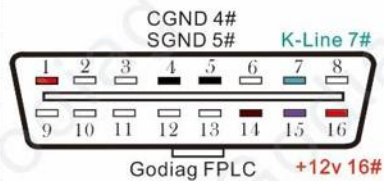
CGND 4#
SGND 5#   K-Line 7#

Godiag FPLC   +12v 16#

BMW Mini 20PIN DLC

BMW Mini 20 PIN DLC

PIN	Signal	Descrition
1	TD	Engine speed
2	CAN-H	OBD Diagnostic
3	CAN-L	OBD Diagnostic
4	Shielding	OBD Diagnostic
7	Oil service reset	
11	External starter on	
12	Battery indicator	
14	Battery power	+12V(30)
15	ISO 9141-2 L	RXD-Diagnostic
16	Ignition +12V	KL.(15) power
17	ISO 9141-2 K	
18	PGSP	Programming line
19	GND	
20	ISO 9141-2 K	TXD-Diagnostic

BMW Mini Car 20 PIN

GND 4#
GND 5#
K-Line 7#
Godiag FPLC
BAT+16#
L-Line 15#
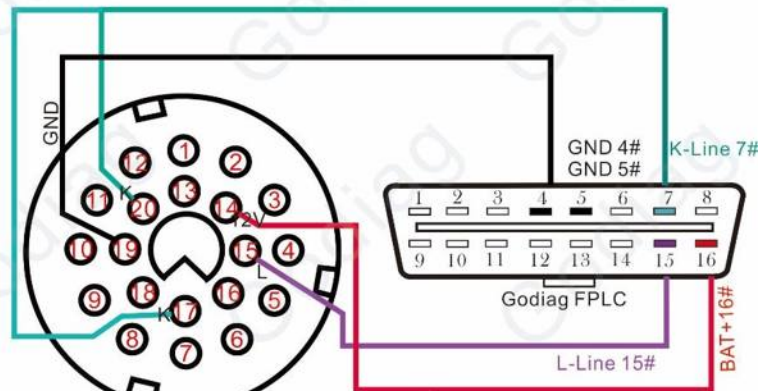
Different car wiring differences:

| OBD2-16 PIN	BMW 20 PIN
7# 8# short	17,20 K-Line
1# 2# short	16# IGN 12V

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BMW old 15PIN

BMW old 15 pin

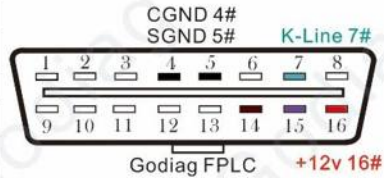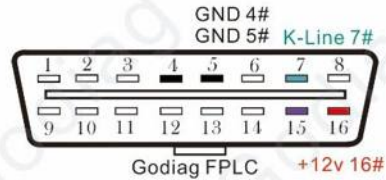| Pin	Description
1	GND Ground
4	Temperature sensor
5	Oxygen sensor
6	SRS diagnostic
7	Oil service and inspection reset
8	Crankshaft position (+)
9	Shield
10	Crankshaft position (-)
11	Starter external turn on
12	Generator status
13	Ignition status
14	Battery power
15	Ignition power
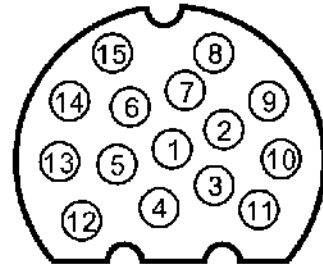
www.godiag.com
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Citroen Peugeot OBD2 car

Citroen car

PIN	Signal	Descrition
1		
2	J1850 Bus+	K-Line
3	RPM	Engine RPM signal
4	CGND	Chassis ground
5	SGND	Signal ground
6	CAN High	J-2284
7	K-LINE	Engine and Gearbox
8		
9		
10	J1850 Bus-	
11	K-Line	IMMO.TPMS
12	K-Line	ABS diagnostic
13	K-Line	Airbag diagnostic
14	CAN Low	
15	ISO 9141-2 L-LINE	
16	+12v	Battery power

CGND 4#
SGND 5#   K-Line 7#
Godiag FPLC   +12v 16#

Citroen Peugeot 30PIN

Peugeot 30 pin

Pin	Signal	Description (may be empty)
A1,A2	+12V	Accumulator
A3	GND	Ground
B1	GND	for engine sensor
B2	shield	for engine sensor
B3		engine sensor power or rotation sense
C1	K-line	engine control module diagnostic
C2	L-line	engine control module diagnostic
C3		Slow codes
D1		GMV1 test
D2		GMV2 test
D3		rotation speed sense relay
E1	K-Line	ABS/ASR diagnostic
E2	K-Line	clearance adjustment diagnostic
E3	K-Line	steering wheel module diagnostic
F1	K-Line	heater and air conditioner diagnostic
F2	K-Line	seat adjustment diagnostic
F3	K-Line	airbag module diagnostic

A B C D E F G H I J
3 2 1

Pin	Signal	Description (may be empty)
G1	K-Line	Gearbox module diagnostic
G2	K-Line	Back axle module diagnostic
G3	K-Line	Differential gear diagnostic
H1	K-Line	Cruise-control diagnostic
H2	K-Line	Trip computer diagnostic
H3	K-Line	door lock diagnostic
I1	K-Line	Rear-view mirror diagnostic
I2	K-Line	Antitheft alarm diagnostic
I3	K-Line	Immobilizer diagnostic

Citroen Peugeot OBD2

Peugeot car

PIN	Signal	Description
1		
2	K-Line	
3		engine rotation sense
4	CGND	Chassis ground
5	SGND	Signal ground
6	CAN-high	J-2284
7	K-Line	
8		
9		
10	K-Line	
11	K-Line	
12	K-Line	ABS diagnostic
13	K-Line	Airbag dignostic
14	K-Line or CAN-low	lock diagnostic/CAN-low
15	L-Line	Engine and transmission
16	+12v	Battery+

GND 4#
GND 5# K-Line 7#

Godiag FPLC   +12v 16#

Citroen Peugeot 30PIN to OBD2

Peugeot, Citroen 30 pin to OBD2

OBD2 Pin	PAS Pin	Description
1	A2	+12V KL.15
2	G1	K-Line Gearbox module diagnostic
3	I2	K-Line on-board computer
4	A3	Ground
5		
6	E1	K-Line ABS/ASR
7	C1	K-Line engine control module diagnostic
8	F3	K-Linke airbag module
9	H3	K-Line door lock diagnostic
10	I1,I3	K-Line Rear-view mirror, Immo
11	E2	K-Line clearance adjustment diagnostic
12	E3	K-Line steering wheel module
13	D2	GMV2 test
14	F1	K-Line heater and air conditioner
15	C2	K-Line engine control module
16	A1	+12V KL.30

A B C D E F G H I J

Citroen Peugeot 30PIN

Peugeot, Citroen 30 pin

Pin	Description
A1	−12V KL.30
A2	+12V KL.15
A3	Ground
C1	K-Line engine control module diagnostic
C2	K-Line engine control module
D2	GMV2 test
E1	K-Line ABS/ASR
E2	K-Line clearance adjustment diagnostic
E3	K-Line steering wheel module
F1	K-Line heater and air conditioner
F3	K-Linke airbag module
G1	K-Line Gearbox module diagnostic
H3	K-Line door lock diagnostic
I2	K-Line on-board computer
I1	K-Line Rear-view mirror, Immo
I3	K-Line Rear-view mirror, Immo
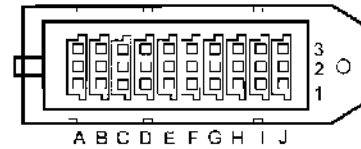
www.godiag.com

Citroen Peugeot Renault PSA VAN-BUS DLC

Peugeot, Citroen, Renault PSA VAN-BUS DLC car

PIN	Signal	Descrition
1		
2		
3	ISO9141 K-Line	
4	CGND	Chassis ground
5	SGND	Signal ground
6		
7	ISO 9141 K-Line	
8	ISO 9141 K-Line	
9	ISO 9141 K-Line	
10		
11	ISO 9141 K-Line	
12	ISO 9141 K-Line	
13	ISO 9141 K-Line	
14		
15	ISO9141 L-Line	
16	+12V	Battery voltage
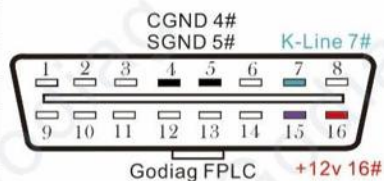
BMD

CGND 4#
SGND 5#
K-Line 7#

Godiag FPLC   +12v 16#

www.godiag.com

Citroen Peugeot Renault PSA VAN-BUS 1997-2006

Peugeot,Citroen,Renault PSA VAN-BUS 1997 to 2006 PIN DLC

PIN	Signal	Descrition
3	ISO9141 K Line	
4	Chassis GND	
5	Signal GND	
7	ISO9141 K Line	Engine transmission DLC
8	ISO9141 K Line	
9	ISO9141 K Line	
11	ISO9141 K Line	Anti-thieft , tire pressure…
12	ISO9141 K Line	ABS
13	ISO9141 K Line	Airbag
15	ISO9141 L-Line	Engine and transmission
16	Battery+	Voltage +12V
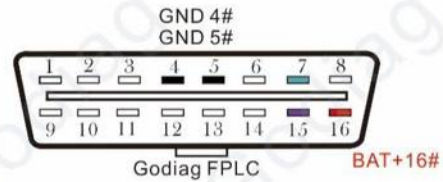
GND 4#
GND 5#

Godiag FPLC

BAT+16#

www.gdiag.com

Daewoo 12PIN

Daewoo 12 PIN

Daewoo 12 PIN

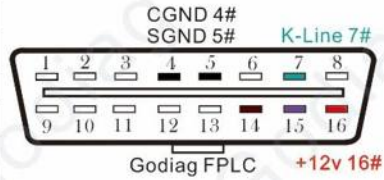| PIN	Signal	Descrition
A	GND	C GND
B	L-Line	Engine ABS***
C	AIR	n/a
D	SES-LAMP	Self-diagnostic
E	K-Line	160B
F	TCC	+12V
G		
H		
J	K-Line	Airbag
K		
L		
M	K-Line	Engine ABS***

GND 4#
GND 5#
K-Line 7#

Godiag FPLC

BAT+16#
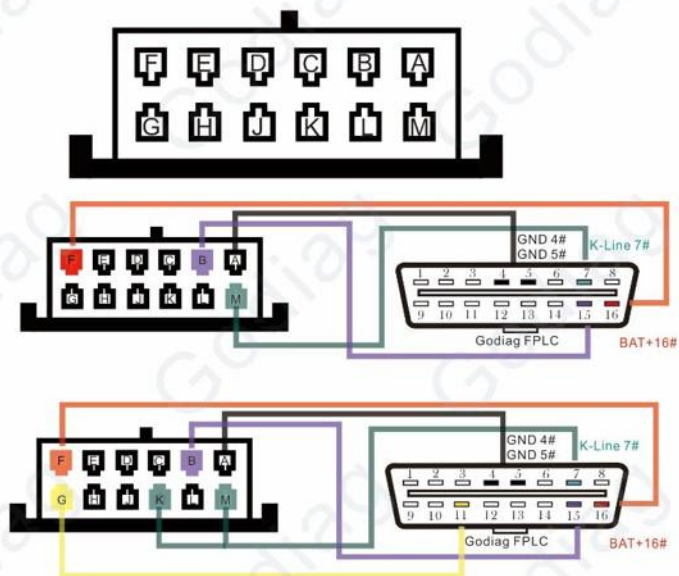
Please check the definition of the vehicle diagnostic interface by yourself,
the definition of the diagnostic interface is different in different regions and different years

Daewoo Car

Daewoo car

PIN	Signal	Descrition
1		
2	J1850 Bus+	
3		
4	CGND	Chassis ground
5	SGND	Signal Ground
6	CAN High	J-2284
7	K-LINE	
8		
9		
10	J1850 Bus-	
11		
12		
13		
14	CAN Low	
15	ISO 9141-2 L-LINE	Tx/Rx
16	+12v	Battery power

CGND 4#
SGND 5#   K-Line 7#

Godiag FPLC   +12v 16#

FIAT Alfa Lancia 3PIN

FIAT Alfa Lancia 3 PIN DLC
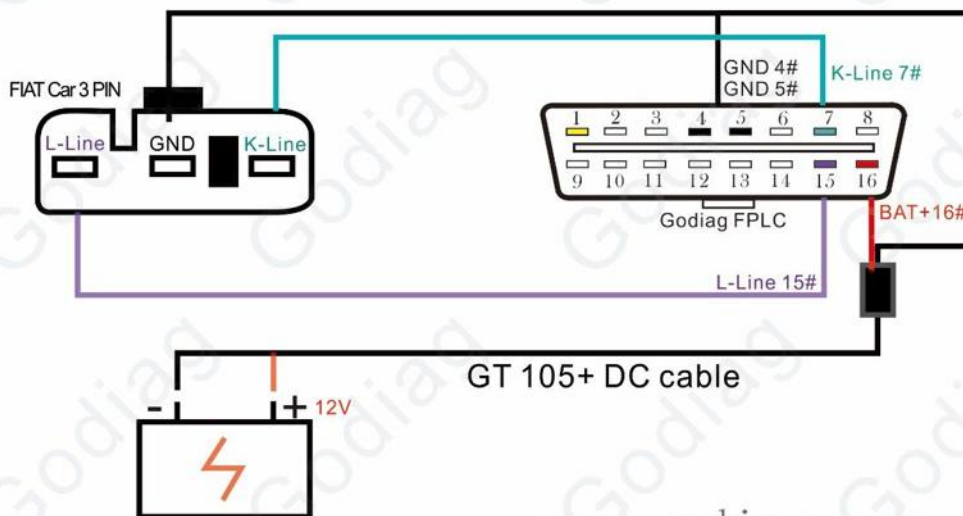
GND 4#
GND 5#   K-Line 7#

FIAT Car 3 PIN

L-Line   GND   K-Line

Godiag FPLC   BAT+16#

L-Line 15#

GT 105+ DC cable

12V

Fiat Car

Fiat car

PIN	Signal	Description
1		ABS, Brakes, K-Line
2	J1850	DW-FT-CAN
3	K-Line	Airbag
4	CGND	Chassis ground
5	SGND	Signal Ground
6	HS-CAN	ISO 15765 HS-CAN(+)
7	K-Line	ISO 9141 (engine)
8		
9		Body ECU , EPS
10	PWM	DW-FT-CAN (-)
11		Anti-Theft system
12		Luggage compartment
13		
14	HS-CAN(-)	ISO 15765 HS-CAN (-)
15	L-Line	
16	Battery+	unswitched
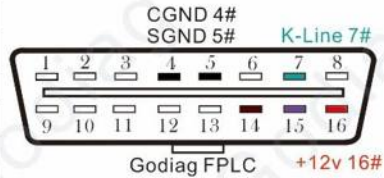
CGND 4#
SGND 5#   K-Line 7#

Godiag FPLC   +12v 16#

Ford 6+1 to OBDII

FORD 6+1 to OBDII

2   1 GND

VCC

7   6   5   4   3

GND 4#
GND 5#   K-Line 7#

Godiag FPLC   BAT+16#
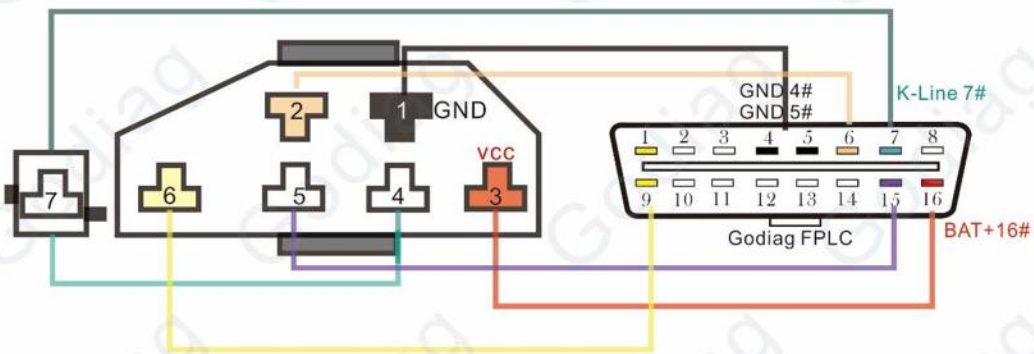
Different year models have different definitions,
please define the connection line according to your own model.

Ford Car

Ford car

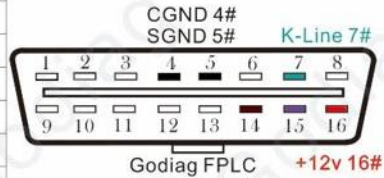| PIN	Signal	Descrition
1		
2	J1850 Bus+ / SCP Bus	ABS and others
3	CAN+/UBP bus	Low speed CAN bus
4	CGND	Chassis ground
5	SGND	Signal ground
6	CAN High	High Speed CAN+
7	K-LINE	ISO Bus
8		
9		
10	J1850 Bus-	SCP bus-
11	Medium speed CAN-	Low speed CAN-
12		
13	PCM	
14	CAN Low	
15		High Speed CAN-
16	+12v	Battery power

CGND 4#
SGND 5#   K-Line 7#

Godiag FPLC   +12v 16#

GM Car

GM car

PIN	Signal	Descrition
1		Low Speed GMLAN
2	J1708	SAE J1708 (Trucks only)
3	PTLAN (+)	High speed hybrid GMLAN bus (+)
4	CGND	Chassis ground
5	SGND	Signal Ground
6	HS-CAN (+)	High Speed GMLAN Bus +
7	KW 200	
8		
9		
10		
11	PTLAN (-)	High speed hybrid GMLAN bus (+)
12		
13		
14	HS-CAN(-)	High Speed GMLAN Bus -
15	J1708 B	SAE J1708 (Trucks only)
16	Battery+	Battery Positive Voltage
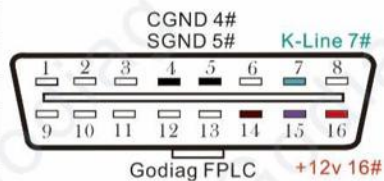
CGND 4#
SGND 5#   K-Line 7#

Godiag FPLC   +12v 16#

Honda Accord 3PIN

HONDA ACCORD 3 PIN DLC
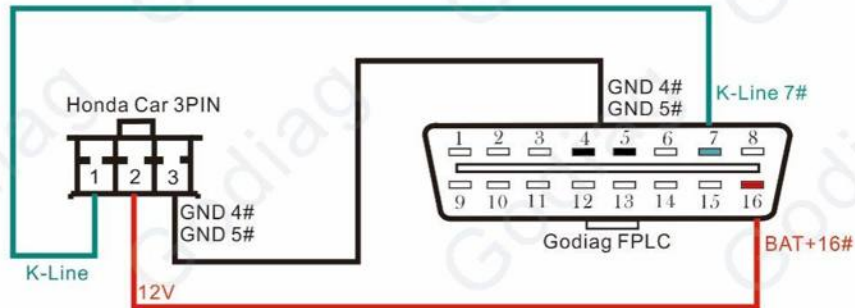
Honda Car 3PIN

1 2 3

GND 4#
GND 5#

K-Line

12V

GND 4#
GND 5#

K-Line 7#

1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16

Godiag FPLC

BAT+16#

All Honda Accord models produced in 1992 - 2001

United States----Canada 1992-1995
Worldwide ----1992-2001 some markets until 2003

Honda Accord 5PIN

HONDA ACCORD 5 PIN DLC
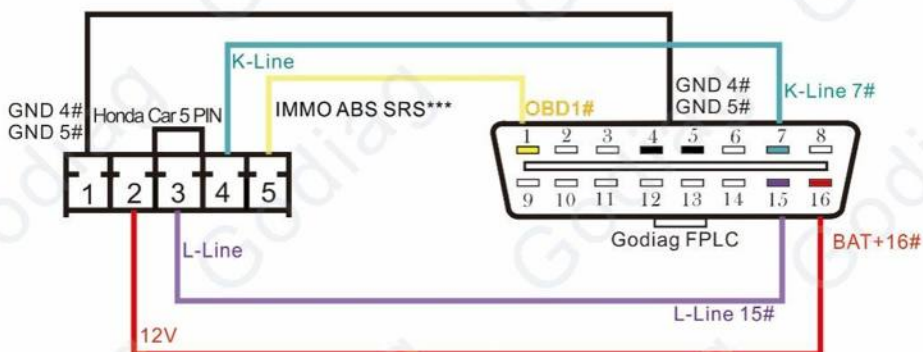
K-Line

GND 4#
GND 5#

Honda Car 5 PIN

IMMO ABS SRS***

OBD1#

GND 4#
GND 5#

K-Line 7#

1 2 3 4 5

L-Line

1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16

Godiag FPLC

BAT+16#

12V

L-Line 15#

All Honda Accord models produced in 1992 - 2001

United States----Canada 1992-1995
Worldwide ----1992-2001 some markets until 2003

Honda Accord Car

Honda car

PIN	Signal	Descrition
1		
2		
3		
4	CGND	Chassis ground
5	SGND	Signal ground
6	CAN High	J-2284
7	K-LINE	
8		
9	SCS	SCS diagnostic codes
10		
11		
12		Programming out
13		
14	CAN Low	J-2284 (WEN)
15	ISO 9141-2 L-LINE	
16	+12v	Battery power (unswitched)

CGND 4#
SGND 5#
K-Line 7#

Godiag FPLC   12v 16#

Hyundai 12PIN

Hyundai 12 PIN

Hyundai 12PIN OLD OBD

PIN	Signal	Descrition
1	K-Line	Engine
2	K-Line	Airbag
4	K-Line	ABS
6	K-Line	Gearbox
10	L-Line	Engine
11		Speed monitoring
12	GND	Ground

GND 4#
GND 5#   K-Line 7#

Godiag FPLC   BAT+16#

Hyundai 1996 NONSTD OBDII

Hyundai 1996 NONSTD OBD2

Hyundai 1996

PIN	Signal	Descrition
1	K-Line	Gearbox
2	K-Line	ABS BUS+
4	C-GND	Chassis ground
5	S-GND	Signal ground
6	CAN H	CAN HJ-2284, ABS/ASR
7	K-Line	Engine Gearbox ISO 9141-2
8	K-Line	ABS diagnostic
9	K-Line	Cruise-control
10	BUS-Line	
12	K-Line	Airbag diagnostic
14	CAN L	J-2284, VSS
15	L-LINE	ISO 9141-2
16	+12V	Battery power
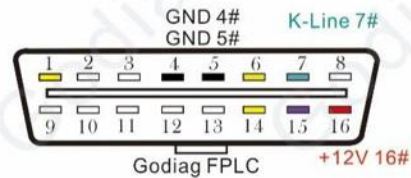
GND 4#
GND 5#   K-Line 7#

Godiag FPLC   +12V 16#

Isuzu CAR

Isuzu car

Pin	Signal	Description
1		SIR (GM8192 Prot.)
2	J1850	
3		ABS (KW81-Prot.)
4	CGND	Chassis ground
5	SGND	Signalground
6	HS-CAN	TCM
7	K-Line	K-Line, K1 (engine)
8		
9		ECM/TCM (GM8192 Prot.)
10	PWM	
11		SIR
12		ABS
13		ECM
14	HS-CAN(-)	
15	L-Line	
16	+12v	Battery power
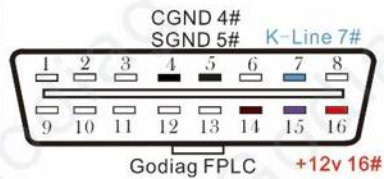
CGND 4#
SGND 5#   K-Line 7#

Godiag FPLC   +12v 16#

Kia 20PIN

Pin	Signal	Description
1	+12V	Power, after fuel pump
2		Cooling fan signal
3		Engine rotation speed / ignition
4	GND	Ground
5	+12V	+12V power
7		initial ignition management
8	L-Line	ABS diagnostic
9	K-Line	Engine diagnostic
10		Automatic transmission code
11		Self-diagnostic codes output
12	GND	Ground
14	K-Line	Airbag diagnostic
15	K-Line	ABS diagnostic codes
16		initial ignition management
17	K-Line	Cruise-control
18	L-Line	Automatic transmission
19	L-Line	Engine diagnostic
20		Engine monitor output
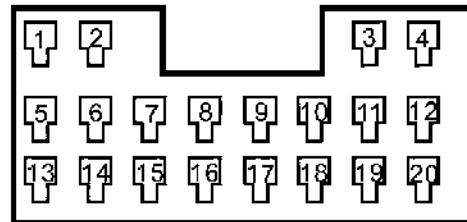
Kia 20 pin

Kia Car

Kia car

Pin	Signal	Description
1		IGN control
2	BUS (+) SCP	
3		
4	CGND	Chassis ground
5	SGND	Signal ground
6	CAN -high	J-2284
7	K -Line	
8	K-Line	ABS diagnostic
9		
10	BUS (-) SCP	
11		
12		
13	FEPS	Flash EEPROM
14	CAN Low	J-2284
15		
16	+12v	Battery power
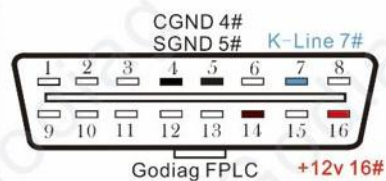
CGND 4#
SGND 5#   K-Line 7#

Godiag FPLC   +12v 16#

Mazda Car

Mazda car

Pin	Signal	Description
1		
2	J1850 Bus+	
3	LS CAN High	Low speed CAN bus
4	CGND	Chassis ground
5	SGND	Signalground
6	CAN −high	J-2284
7	K −Line	
8		
9		
10	J1850 Bus −	
11	LS CAN Low	Low speed CAN bus
12		
13		
14	CAN Low	J-2284
15	ISO 9141 −2 L-LINE	
16	+12v	Batterypower
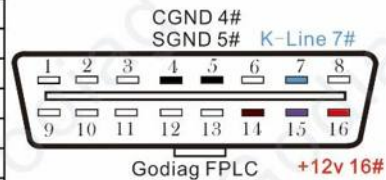
CGND 4#
SGND 5#   K-Line 7#

Godiag FPLC   +12v 16#

Mercedes BENZ 8PIN

Mercedes 8 pin

Pin	Signal	Description (may be empty)
1	GND	Ground
3		Self-diagnostic button
2	K-Line	CFI, KE,DM
4	K-Line	EDS, ARA.self-diagnostic LED
5	K-Line	ASD, 4MATIC diagnostic
6	K-Line	Airbag, SRS, AB diagnostic
7	K-Line	air-conditioner and heater
8	K-Line	Engine and ignition diagnostic
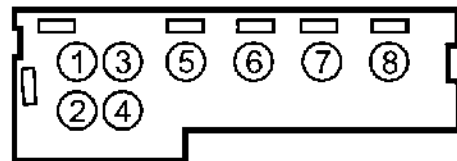
Mercedes BENZ-38PIN

Mercedes Benz-38 PIN DLC
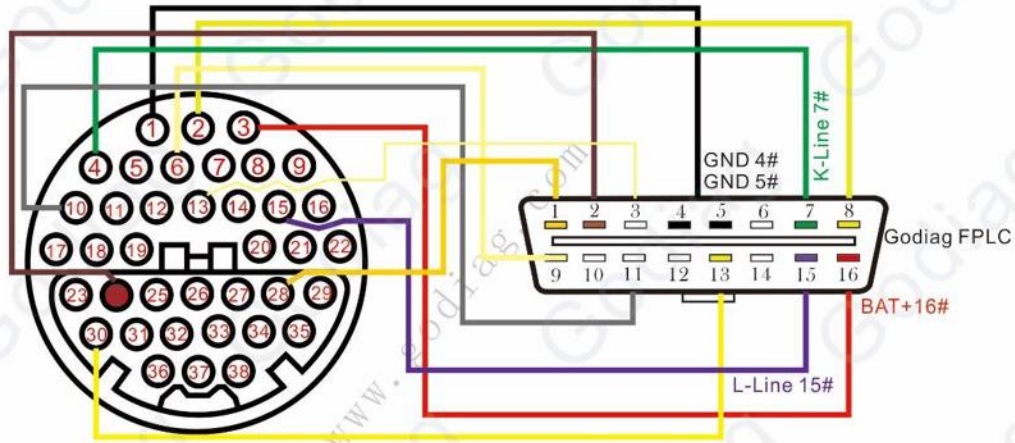
GND 4#
GND 5#

K-Line 7#

Godiag FPLC

BAT+16#

L-Line 15#

Mercedes BENZ 14PIN

Mercedes 14 pin

Pin	Signal	Description (may be empty)
1	GND	Ground KL.31
2	POWER	Power supply KL.15
3	POWER	thirtieth circuit
4	K-Line	EWS
5	RPM	RPM Signal
6	K-Line (ECU)	APS
7	K-Line (ECU)	EDW
8	K-Line (ECU)	AirBag AB
9	K-Line (ECU)	Automatic transmission
10	K-Line (ECU)	HZR, ADR
11	K-Line (ECU)	heating system
12	K-Line (ECU)	KI, IC, FTCO dashboard
13	K-Line (ECU)	ABS/ABD/EDL
14	K-Line (ECU)	EVE/CDI/PMS
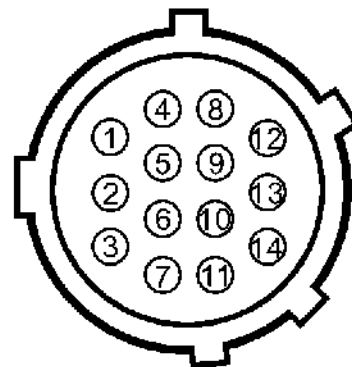
Mercedes BENZ Car

Mercedes car

Pin	Signal	Description
1	K-Line	
2		
3	TNA	
4	CGND	
5	SGND	
6	CAN-high	
7	K-Line	
8		Ignition,...
9	K-Line	ABS, ASR, ESP, ETS..
10		
11	K-Line	EGS, ETC, FTC, Gearbox
12	K-Line	AAM, Radio, ICS..
13	K-Line	safetysystems
14	CAN Low	
15	K-Line	IC, KI, TAU, LWR
16	+12v	Power
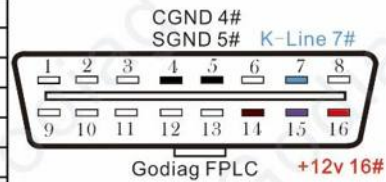
CGND 4#
SGND 5#   K-Line 7#

Godiag FPLC   +12v 16#

Mercedes BENZ Old 9PIN

Mercedes old 9 pin

Pin	Description (may be empty)
3	Diagnostic codes output. Works with special equipment only.
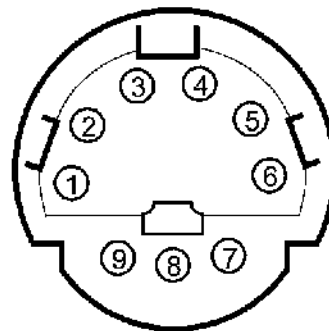
27

Mercedes BENZ Old 16PIN

Mercedes old 16 pin

Pin	Signal	Description (may be empty)
1	GND	Ground
2		Self-diagnostic button
3	K-Line	CFI, KE,DM
4	K-Line	EDS, ARA. self-diagnostic LED
5	K-Line	ASD, 4MATIC diagnostic
6	K-Line	Airbag, SRS, AB diagnostic
7	K-Line	Air-conditioner and heater
8	K-Line	HFM-SFI, DI
9	K-Line	ADS diagnostic
10	K-Line	Gasoline engine speed sense
11	K-Line	Anti-thieft diagnostic
12	K-Line	IRCL diagnostic
13	K-Line	EGS, EATC
14	K-Line	ESCM, MAS,SC, EA, EFP. CC
16	+12v	Power
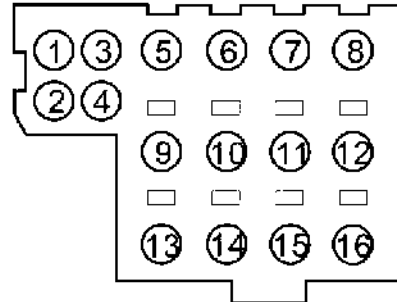
Mitsubishi Car

Mitsubishi car

Pin	Signal	Description
1	Diagnosticcontrol	
2		
3	SWS	communication line
4	CGND	Chassis ground
5	SGND	Signalground
6	CAN High	J-2284
7		MPI, CVT, SRS, immo..
8		
9	ETACS	
10		
11	ECU optimisationontrol	
12		
13		
14	CAN Low	J-2284
15		
16	+12v	Battery power supply
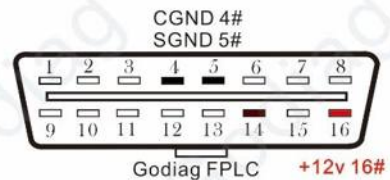
CGND 4#
SGND 5#

Godiag FPLC   +12v 16#

Mitsubishi Old 12PIN

Mitsubishi old 12 pin

Pin	Signal	Description (may be empty)
1	Engine	MPI,ABS/ASR control
2	Steering	4WS - Steering wheel control
3	Suspension	Active ECS
4	Brake	ABS diagnostic
5	Cruise control	ASC diagnostic
6	Transmission	ELC-4/5AT
7	Air conditioner	Full auto AC
8	Air bag	SRS - safety systems
9	ETACS	Pulse signal only
10	Diagnosis control	
11		Simulation of speed sense
12	GND	Ground
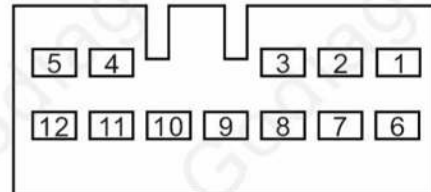
www.godiag.com

Nissan 14PIN

Nissan 14 pin

Pin	Signal	Description
1	RX(TX)	Data in
2	RX(TX)	Data out
4	ABS	ABS diagnostic
6	CHK	Check to ECCS
7	+12v	Power
8	GND	Ground
9	CLK	Synchronization signal
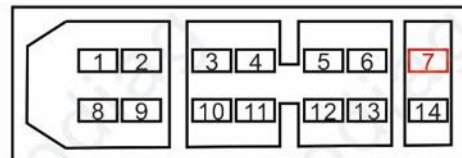
www.godiag.com

Nissan Car

Nissan car

Pin	Signal	Description
1	CHECK	
2	J1850 Bus+	
3		
4	CGND	Chassis ground
5	SGND	Signalground
6	CAN High	J-2284
7	K-LINE	
8	Ignition ON	
9	ABS	
10	J1850 Bus-	
11	AdjustSwitch	
12	SCI TX	
13	SCI RX	
14	CAN Low	J-2284
15	ISO 9141-2 L-LINE	
16	+12v	Storage Battery power
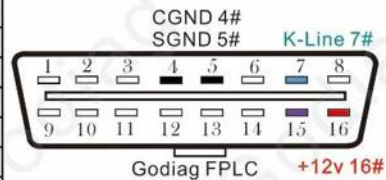
CGND 4#
SGND 5#   K-Line 7#

1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16

Godiag FPLC   +12v 16#

Opel 10PIN to OBDII

Opel 10 pin to OBD2

10 Pin	16 Pin	Description
E	1	Slow self-diagnostic codes out
C	3	Transmission diagnostic (L-Line)
A	5	Ground
D	6	Engine diagnostic K-Line.
H	8	ATWS slow self-diagnostic codes
J	9	4WD slow self-diagnostic codes
K	10	ABS L-Line
B	15	Engine diagnostic K-Line.
F	16	Accumulator +12v
G	N/C	Engine, ABS diagnostic K-Line
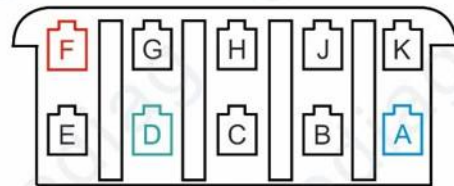
F G H J K
E D C B A

Opel Car

Opel car

PIN	Signal	Descrition
1		
2	K-Line	ABS diagnostic
3	K-Line	Radio, immobilizer..
4	CGND	Chassis ground
5	SGND	Signal ground
6	CAN-high	J-2284
7	K-Line	Engine, ABS, AT, Airbag..
8	K-Line	TID, MID diagnostic
9	K-Line	ABS, Airbag
10		
11	K-Line	
12	K-Line	TID, MID, ABS, AirBag..
13	K-Line	immobilizer, MID
14	CAN-low	
15		
16	+12v	Battery+
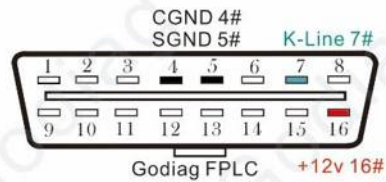
CGND 4#
SGND 5#   K-Line 7#

1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16

Godiag FPLC   +12v 16#

Renault CAR

Renault car

PIN	Signal	Descrition
1		
2	J1850 Bus+	
3		
4	CGND	Chassis ground
5	SGND	Signal ground
6	CAN High	J-2284
7	K-LINE	
8		
9		
10	J1850 Bus-	
11		
12	LS CAN Bus	
13	LS CAN Bus	
14	CAN Low	J-2284
15	ISO 9141-2 L-LINE	
16	+12v	Battery power
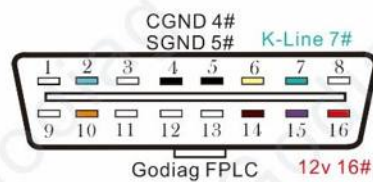
CGND 4#
SGND 5#   K-Line 7#

1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16

Godiag FPLC   12v 16#

Renault Old 12PIN

Renault old 12 pin

Pin	Signal	Description
1	K-Line	Automatic transmission diagnostic
2	GND	
6	+12V	Accumulator
7	K-Line	Automatic transmission diagnostic
8	L-Line	Engine diagnostic
9	K-Line	Engine diagnostic
10	L-Line	Engine diagnostic
11	K-Line	Engine diagnostic, ABS, Airbag
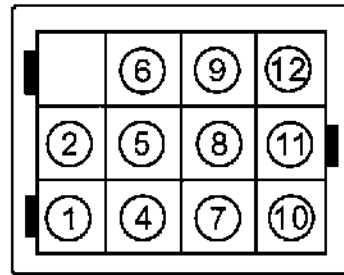
SAAB Car

SAAB car

PIN	Signal	Descrition
1		Saab Instruments (+)
2	J1850	
3		
4	CGND	Chassis ground
5	SGND	Signal Ground
6	HS-CAN	Blinkcode
7	K-Line	
8		Saab 9000/1, KW81/82
9		Saab Instruments (-)
10	PWM	
11		L-Line Memory Seats
12		
13		
14	HS-CAN(-)	
15	L-Line	
16	+12v	
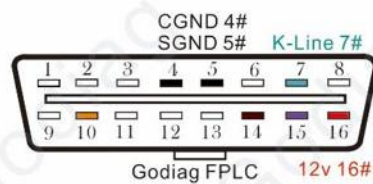
CGND 4#
SGND 5#   K-Line 7#

Godiag FPLC   12v 16#

Skoda Car

Skoda car

PIN	Signal	Descrition
1		
2	J1850 Bus+	
3		
4	CGND	Chassis ground
5	SGND	Signal ground
6	CAN High	J-2284
7	K-LINE	
8		
9		
10	J1850 Bus-	
11		
12		
13		
14	CAN Low	J-2284
15	ISO 9141-2 L-LINE	
16	+12v	Battery power

CGND 4#
SGND 5#   K-Line 7#

Godiag FPLC   12v 16#

www.godiag.com

Subaru Car

Subaru car

PIN	Signal	Descrition
1	GND	Ground
2		
3		
4	CGND	Chassis ground
5	SGND	Signal ground
6	CAN High	J-2284
7	K-LINE	
8		
9		SSM timing pulse
10		
11		SSM timing pulse
12		SSM to ECM signal
13		ECM to SSM signal
14	CAN Low	J-2284
15	ISO 9141-2 L-LINE	
16	+12v	Battery power
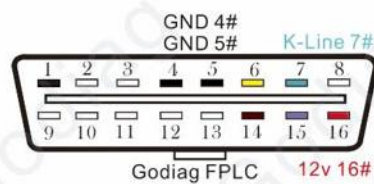
GND 4#
GND 5#   K-Line 7#

Godiag FPLC   12v 16#

www.godiag.com

Subaru Old 9PIN

Subaru old 9 pin

Pin	Description
2	for SSM (Subaru Select Monitor)
3	SSM (Subaru Select Monitor)
9	Ground
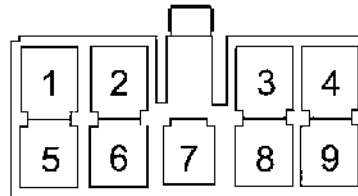
Suzuki Car

Suzuki car

PIN	Signal	Descrition
1		
2		
3		
4	CGND	Chassis ground
5	SGND	Signal ground
6	CAN High	J-2284
7	K-LINE	
8		
9	SDL	Suzuki Serial Link Data
10		
11		
12		
13		
14	CAN Low	J-2284
15	ISO 9141-2 L-LINE	
16	+12v	Battery power
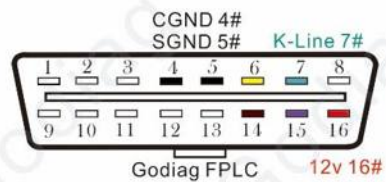
CGND 4#
SGND 5#   K-Line 7#

Godiag FPLC   12v 16#

Toyota 17PIN

Toyota 17 pin

Trc	OpB		Tem	Abs
OpA AB A/c	A/d Ect	W	Eng
To Ti Tc	E1 Tc2 Tc1
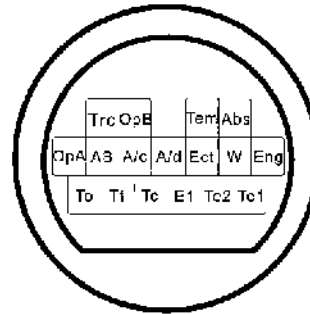
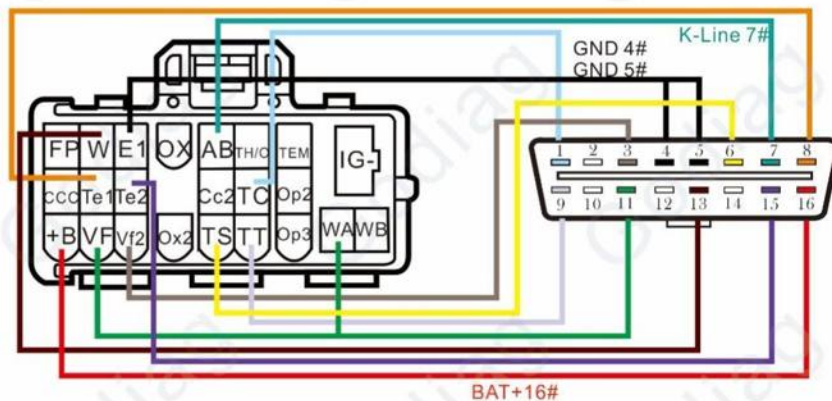| Pin	Function
Te1	Engine self-diagnostic codes
E1	Engine self-diagnostic codes. Access trouble codes on OBD1 toyota cars
W	Engine self-diagnostic codes. Self check for the complete warning circuit integrity for OBD1 toyota cars

Toyota 23PIN

Toyota 23 Pin

Toyota pin	OBD Pin
TC	1
Vf2	3
E1	4,5
TS	6
AB	7
Te1	8
TT	9
VF or WA	11
W	13
Te2	15
+B	16

K-Line 7#
GND 4#
GND 5#
BAT+16#

Toyota/Lexus Car

Toyota/Lexus car

PIN	Signal	Description
1		
2	J1850 Bus+	In earlier models
3		
4	CGND	Chassis ground
5	SGND	Signal ground
6	CAN High	CAN Bus
7	SIL	
8		
9	TAC	
10	J1850 Bus-	
11		
12	TS	
13	TC	
14	CAN Low	CAN Bus
15	L-LINE	In earlier models
16	+12v	Battery power
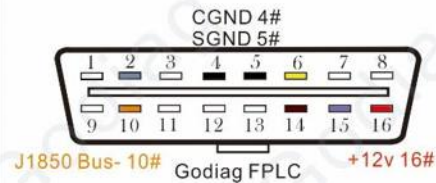
CGND 4#
SGND 5#

1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16

J1850 Bus- 10#   Godiag FPLC   +12v 16#

Vendor-Specific OBDII

vendor-specific OBD-2

PIN	Signal	Description
1		
2	J1850 Bus+	J1850 PWM and VPW
3		
4	CGND	Chassis ground
5	SGND	Signal ground
6	CAN High	
7	ISO 9141-2 K-LINE	
8		
9		
10	J1850 Bus-	J1850 PWM only
11		
12		
13		
14	CAN Low	
15	ISO 9141-2 L-LINE	
16	+12V or +24V	Battery power
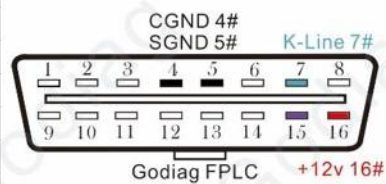
CGND 4#
SGND 5#   K-Line 7#

1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16

Godiag FPLC   +12v 16#

Volkswagen Car

Volkswagen car

PIN	Signal	Descrition
1	IGN	Switch to +12V when ignite on
2	J1850 Bus+	
3		
4	CGND	Chassis ground
5	SGND	Signal ground
6	CAN High	
7	K-LINE	
8		
9		
10	J1850 Bus-	
11		
12		
13		
14	CAN Low	
15	L-LINE	
16	+12v	Battery power
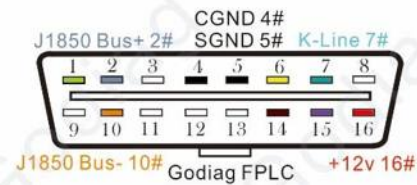
CGND 4#
J1850 Bus+ 2#   SGND 5#   K-Line 7#

J1850 Bus- 10#   Godiag FPLC   +12v 16#

Volvo 12PIN 1985-1995

VOLVO 12 PIN 1985-1995 models

VOLVO 12 PIN

PIN	Description
A1	Automatic transmission diagnostic
A2	Engine diagnostic (fuel pump)
A3	ABS diagnostic
A5	Automatic transmission - TCU
A6	Engine diagnostic (ignition)
A7	Dash diagnostic
B1	Air-conditioner
B2	Cruise-control diagnostic
B5	Airbags diagnostic
B6	Seats control diagnostic
B7	Dash diagnostic
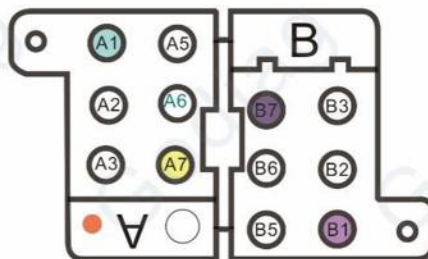
Volvo Car

Volvo car

PIN	Signal	Description
1		
2	J1850 Bus+	
3		Low speed CAN - H
4	CGND	Chassis ground
5	SGND	Signal ground
6	CAN High	High speed CAN
7	K-Line	
8		
9		
10	J1850 Bus-	
11	K-Line	
12		
13		Cruise-control
14	CAN Low	High speed CAN
15	L-Line	
16	+12v	Battery power
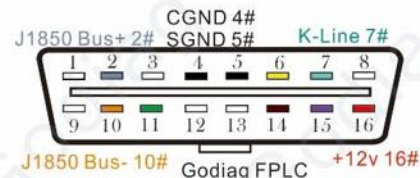
CGND 4#
J1850 Bus+ 2# SGND 5#   K-Line 7#
1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16
J1850 Bus- 10# Godiag FPLC   +12v 16#

13. Truck, Tractor, Motorcycle Diagnostic Interface Definition

BMW motorcycle 10PIN

BMW motorcycle 10 pin

Pin	Signal	Description
1	K-Line	BMS/ABS ISO 9141/2
4	GND	Ground
5	I-Bus	control and monitor interface
6	+12v	KL.30 Power
8	I-Bus or N/C	control and monitor interface
10	L-Line	
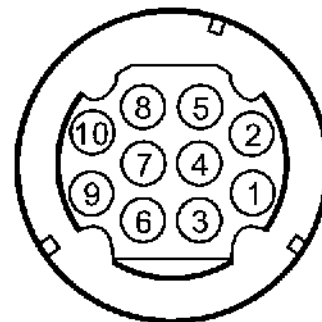
CAT 9PIN

CAT 9 pin

Pin	Signal	Description
A	+12V	Battery
B	GND	Ground
D	+1708	J1708 interface
E	1708	J1708 interface
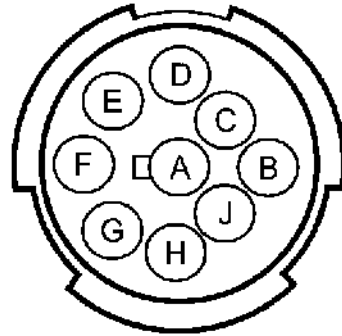
DAF Truck 16PIN

DAF truck 16 pin

Pin	Signal	Description
1	V+	Battery KL.15
3	K-Line	EBS
4	GND	Ground
5	UPEC	UPEC bus or Ground
6	CAN High	
8	K-Line	
9	K-Line	
12	K-Line	DIP4
14	CAN Low	CAN Diagnostic Interface
15	K-Line	ACH-EW
16	V+	Battery KL.30
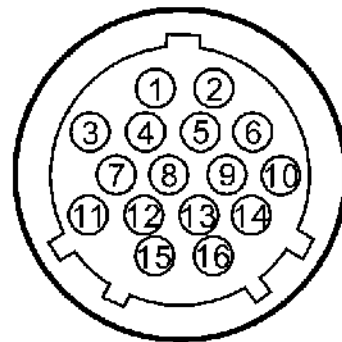
DAF Truck 16PIN For CF XF

For CF, XF

Pin	Signal	Description
1	V+	Battery KL.15
2	K-Line	Heater
3	K-Line	EBS
4,5	GND	Ground
6	CAN High	
8	K-Line	CDS
10	K-Line	ASTronic
11	K-Line	EST42
12	K-Line	DIP4
13	K-Line	AGS
14	CAN Low	CAN Diagnostic interface
15	K-Line	ACH-EW
16	V+	Battery KL.30
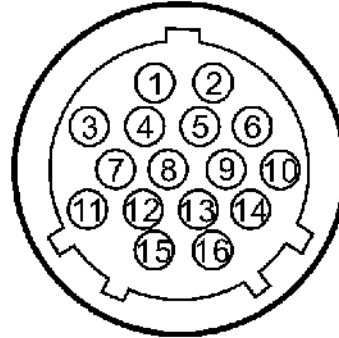
DAF truck 16 pin

DAF Truck 16PIN For LF CF65 and others

DAF truck 16 pin

For LF, CF65 and others

Pin	Signal	Description
1	V+	Battery KL.15
3	K-Line	EBS
4	GND	Ground
5	UPEC	UPEC bus or Ground
6	CAN High	
8	K-Line	
9	K-Line	
12	K-Line	DIP4
14	CAN Low	CAN Diagnostic interface
15	K-Line	ACH-EW
16	V+	Battery KL.30
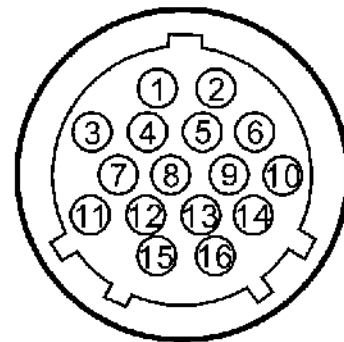
Deutz Agrotron MK3 14PIN

Deutz Agrotron Mk3 14 pin

Pin	Signal	Description (may be empty)
1	GND	Ground
2	12V	Battery
3	L-Line	Diagnostic interface / ECU
4	K-Line	Diagnostic interface / ECU
5		
6		
7		
8	SDDK/SDDI	Power Shuttle/ Shift
9	K-Line	Powerlift diagnostics
10	L-Line	Powerlift diagnostics
11	TXD	Diagnostics interface transmission
12	RXD	Diagnostics interface transmission
13	K-Line	Front suspension diagnostics
14	L-Line	Front suspension diagnostics
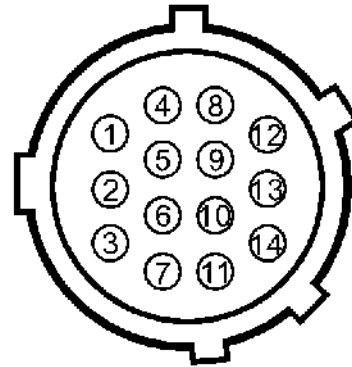
Interfaz Car

Interfaz car

Pin	Signal	Description
1	NC	
2	J1850 bus +	
3	NC	
4	Vehiclemass	
5	Signalmass	
6	CAN High (J-2284)	
7	ISO 9141-2 K exit	
8	NC	
9	NC	
10	J1850 bus	
11		
12		
13		
14	CAN Low (J-2284)	
15	ISO 9141-2 L exit	
16	+12v	Battery-tension
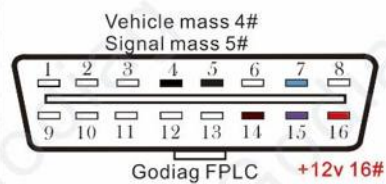
Vehicle mass 4#
Signal mass 5#

Godiag FPLC   +12v 16#

Iveco 30PIN

Pin	Signal	Description
1	ISO-L	ECM or EDC
2	ISO-K	ECM or EDC
3	ISO-L	ABS/ASR or EBS
4	ISO-K	ABS/ASR or EBS Tachograph
5	ISO-L	INTARDER ZF or TELMA Retarder
6	ISO-K	INTARDER ZF or TELMA Retarder
7	ISO-L	VBC or SIB
8	ISO-K	VBC or SIB
9	ISO-L	Kneeling,SPR1
10	ISO-K	Kneeling,SPR1
11	+15	KL.15
12	ISO-K	VCM, Immobilizer
13	ISO-L	Webasto heater or VALEO climate
14	ISO-K	Webasto heater or VALEO climate
15	ISO-L	DCU, ECAS
16	ISO-K	DCU, ECAS
17	ISO-L	VOITH DIWA 5
18	ISO-K	VOITH DIWA 5
19		EOL EUROTRONIC
20		EOL EUROTRONIC
21	CAN-H	Wiring H VDB - SPR1
22	CAN-L	Wiring H VDB - SPR1
23	BMT sync	BMT engine sync signal or NC
24		Shielding
25		Engine start signal or N/C
26		Engine start signal or N/C
27	Plus pole	Battery+ KL.30
28	RPM	Engine speed
29	Tachograph	Speed signal by the tachograph
30	Negative pole	Ground
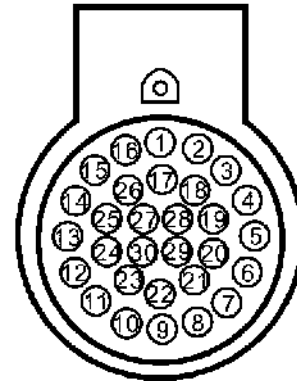
Iveco 30 pin

Iveco 30PIN

Pin	Description	Signal
1	EDC/EGR/Methane	L line
2	EDC/EGR/Methane	K line
3	ABS/EBD/ABD	L line
4	ABS/EBD/ABD	K line
6	Air Bag/Retarder	K line
7	Multiplex (Iveco Stralis)	L line
8	Tahometer or Multiplex	K line
9	Air Conditioner, Heater	L line
10	Air Conditioner, Heater	K line
11	Supply +15 / A services	Power supply
12	Immobilizer/Central	K line
13	Climate control system or Tahograph	L line
14	Climate control system or Tahograph	K line
15	Self-leveling suspension	L line
16	Self-leveling suspension	K line
17	EUROTRONIC (Iveco Stralis)	L line
18	EUROTRONIC (Iveco Stralis)	K line
21	CAN	
22	CAN	
23	Engine timing signal	
24	Battery-	Screen
25,26	Engine start signal	
27	Supply Kl30	Battery V+
28	Engine rpm	RPM
29	Vehicle speed	
30	Earth	Earth
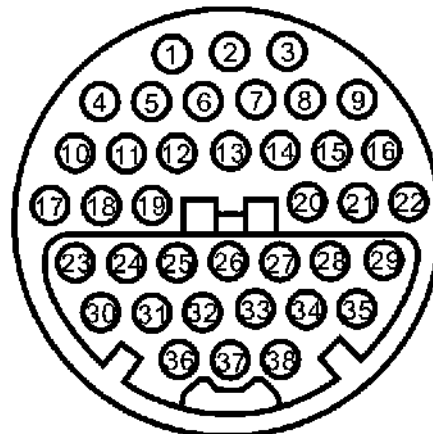
Iveco 38 pin

Jhon Deere 9PIN

Jhon Deere 9 pin

Pin	Signal	Description
A	GND	Ground
B	B+	Battery
C	CAN High	CAN diagnostic interface
D	CAN Low	CAN diagnostic interface
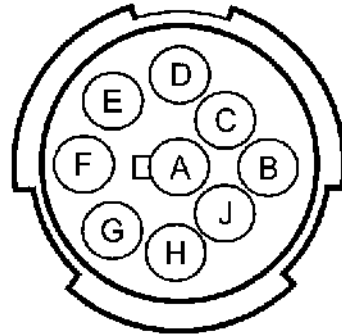
Kubota 4PIN

Kubota diagnostic 4 pin

Pin	Description
1	12V Power
2	GND Ground/CAN High
3	CAN High/GND Ground
4	CAN Low
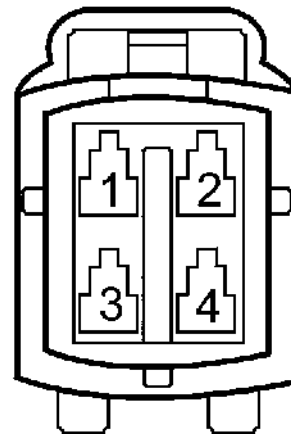
Landini New Holland 30PIN

Landini, New Holland 30 pin

Pin	Signal	Description
2	K-Line	Diagnostic interface
27	+24V	Battery
30	GND	Ground
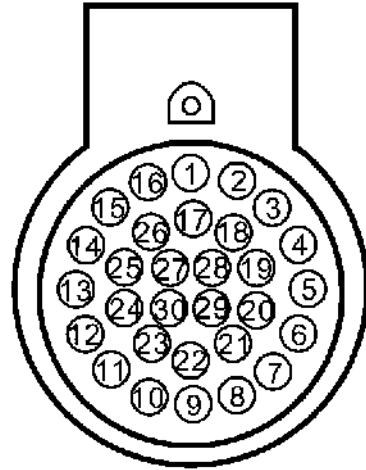
MAN Car

MAN car

Pin	Signal	Description
1	W	Generator rotation rate signal
2		
3		
4	GND	Ground
5		
6	CAN -high	
7		
8	V+	Battery KL. 15
9		
10		
11		
12		
13		
14	CAN Low	
15		
16	V+	Battery KL. 30
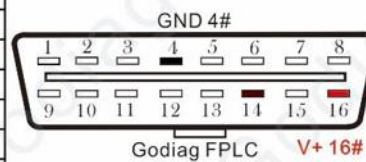
GND 4#

Godiag FPLC   V+ 16#

MAN 12PIN

MAN 12 pin

Pin	Signal	Description
1	CAN-High	CAN diagnostic (optional)
2	CAN-Low	CAN diagnostic (optional)
4	K-Line	KWP 2000 interface
9	GND	Ground
10	V+	Battery KL.30
11	V+	Battery KL.15
12	W	Generator signal
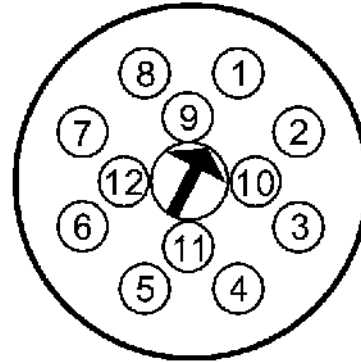
MAN 37 PIN

MAN 37 pin

Pin	Signal	Description
A	GND	Ground
a	K-Line	Diagnostic
Z	K-Line	ZBRO (A360) Multiplex
D	+12V	Battery KL.30
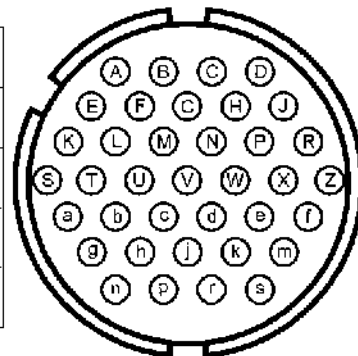
Massey Ferguson 16 pin

Pin	Signal	Description
1	+24V	Battery
2	GND	Ground
3	CAN High	CAN Diagnostic
4	CAN Low	CAN Diagnostic
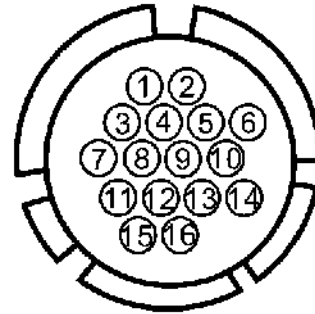
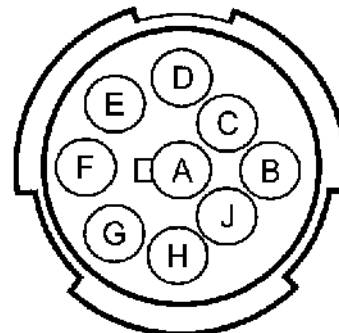www. godiag. com
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McCormick tractor 9PIN

McCormick tractor 9 pin

Pin	Signal	Description
A	GND	Ground
B	+24V	Battery power
E	K-line	Diagnostic

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Nissan Atleon Truck

Nissan Atleon truck

Pin	Signal	Description
2	GND	Ground
5	+12V	Battery
4	K-Line	Diagnostic
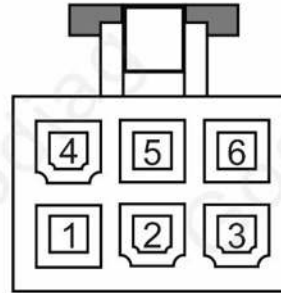
Renault Magnum Midlum Premium Truck

Renault Magnum, Midlum, Premium trucks diagnostic pinout

Pin	Signal	Description
2	+24V	Battery
5	GND	Ground
8	J1708 High	J1708 485 diagnostic
9	J1708 Low	J1708 485 diagnostic
11	K-Line	ISO 9141-2
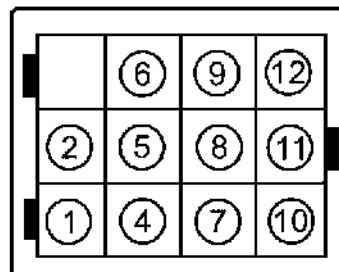
Renault Volvo Truck

Renault, Volvo Truck

PIN	Signal	Description
1	DC+	
2		
3		
4	GND	Ground
5	GND	Ground
6	J1939 +	Engine J1939 diagnostic
7	KWP2000	
8	KWP AC	
9		
10		
11		
12	J1587-1+	J1587 diagnostic
13	J1587-1-	J1587 diagnostic
14	J1939-	Engine J1939 diagnostic
15		
16	Battery+	+24V
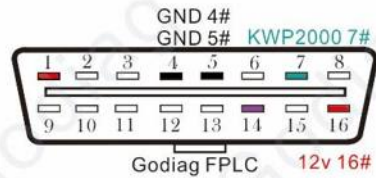
BMD

GND 4#
GND 5#   KWP2000 7#

Godiag FPLC   12v 16#

Scania 16PIN

Scania 16 pin

Pin	Signal	Description
1	+12V	Battery
2	GND	Ground
8	K-Line	Diagnostic
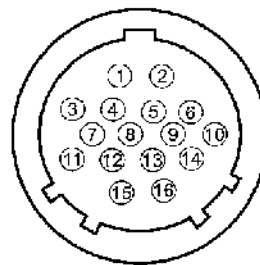
14. Packing List

1pc x GODIAG GT108 Super OBDI-OBDII Universal Conversion Adapter
1pc x Truck & Car Diagnostic Interface Connection Jumper Kit (optional)
1pc x Power Cord with Battery Clips
1pc x Screwdriver
1pc x DC Plug 5.5*2.1mm to 5.5*2.5mm

15. Warranty Service

This product provides one-year warranty service.

This warranty does not apply to damages caused by improper use, accident, flood, lightning, or if the product was altered or repaired by anyone other than the Manufacturer's Service Center.

If the device needs to be repaired, please fill in the service information below:

Contact name

Return address

Phone Number

Concise and Comprehensive Problem Description:

Proof of Purchase

Send the device to the local dealer.

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Thanks for reading!