



PRODUCT MANUAL

FOR BMW TESTING TOOL

Professional for BMW CAS 1-2-3-4 | BDC / FEM | JBE | JGW
ELV | DASH | Ignition Testing Tool

SUPPORT

- ✓ Universal OBD
- ✓ Autohex-II Compatible
- ✓ ISTA+ | VVDI | ABRITES etc.
- ✓ BDC / FEM Control Mode
- ✓ CAS 4 Control Mode
- ✓ CAS 1-2-3+ Control Mode
- ✓ Original ELV Control
- ✓ ZGW + JBE Control Mode
- ✓ Key Coil Control
- ✓ Dashboard Control (CAS 1-2-3-4 BDC/FEM)
- ✓ Dashboard Control LED Mode
- ✓ PT-CAN / D-CAN Change Mode
- ✓ Ignition Emulator Mode (ON Vehicle)
- ✓ Ignition Emulator Mode (No CAS 1-2-3-4 BDC/FEM)
- ✓ Remote Control LED Mode
- ✓ ELV Emulator (BDC/FEM CAS 1-2-3-4)
- ✓ CAN Control Out > PT-CAN / PT-CAN 2
D-CAN / K-CAN / K-CAN 2 / K-CAN 3
F-CAN / FLEXRAY 0-1-2-3-4-5-6-7

ACCESSORIES



BDC/FEM
Cable



CAS 1
Cable



CAS 2-3+
Cable



CAS 4
Cable



CAS 2-3+ | JBE
Cable



CAS 2-3+ | ZGW
Cable



ELV Control
CAS 1-2-3 BDC/FEM
Cable



Dashboard
CAS 4
Cable



Dashboard
CAS 1-2-3
Cable



Dashboard
Cable



CAN Control 1
Cable



Can Control 2
Cable



Can Control 3
Cable



Can Control 5
Cable



Universal OBD
Cable



AUTOHEX-II
EEPROM Adapter



AUTOHEX-II
On-Bench
Cable

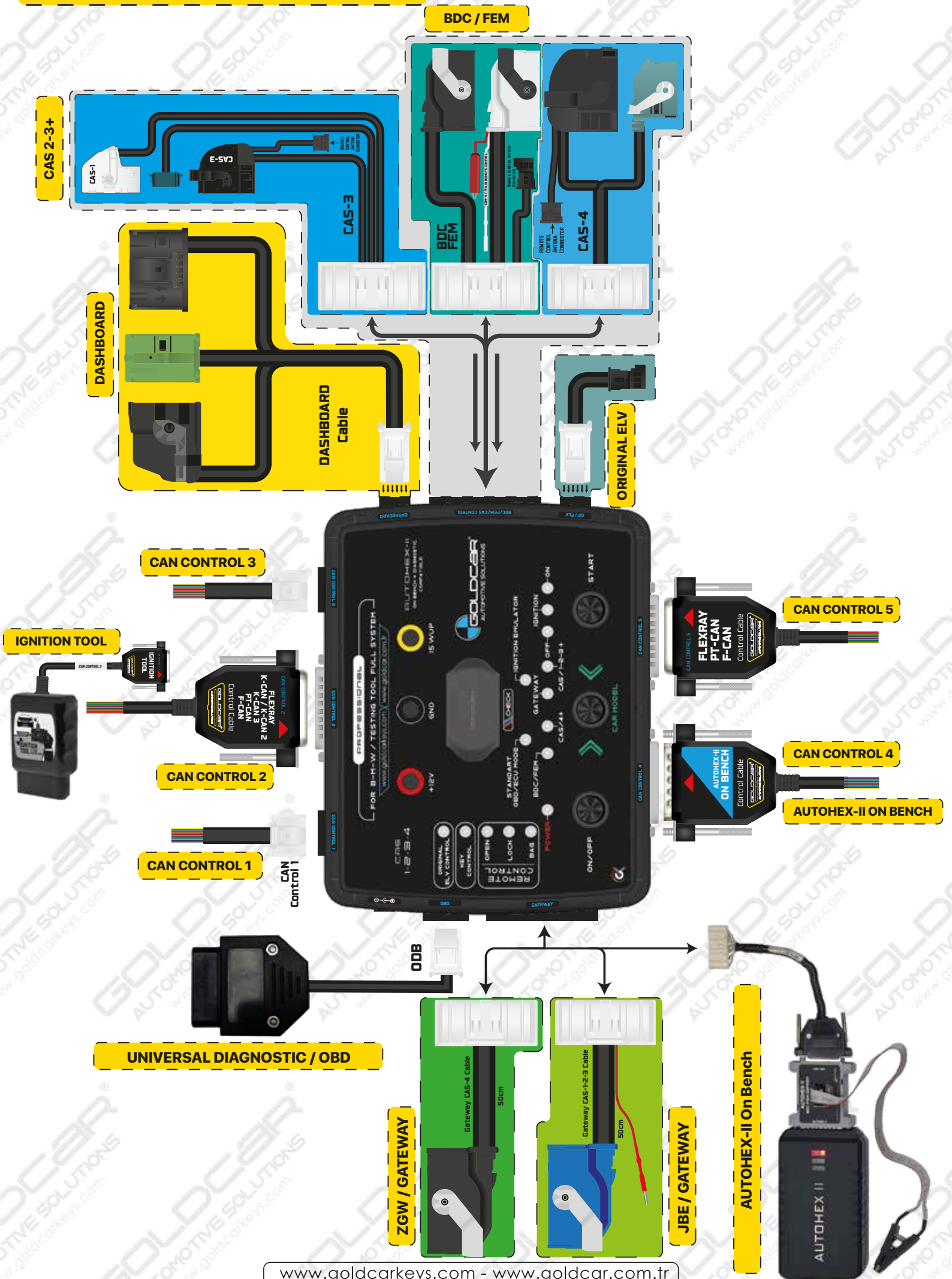


AUTOHEX-II
EEPROM Adapter
Cable



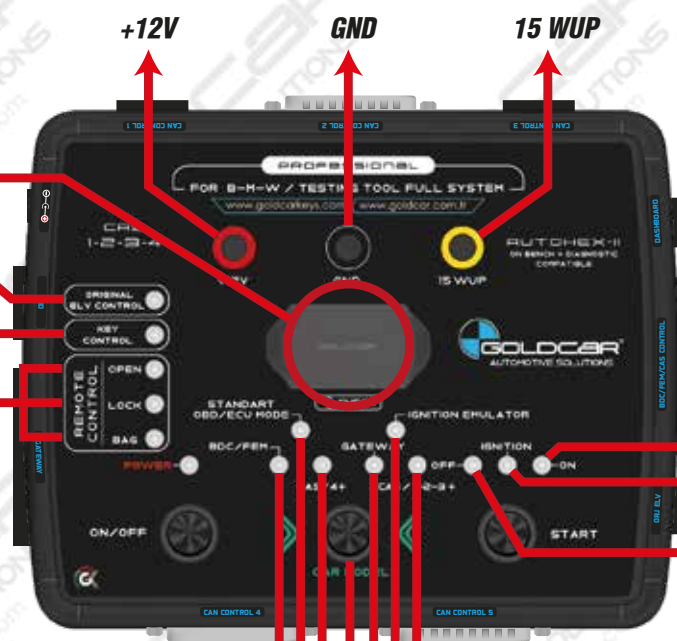
On Vehicle
Ignition Tool

GOLDCAR BMW Testing Tool Overview



LED Functions

- COIL**
Key Coil
- ORIGINAL ELV CONTROL**
When you plug the Original ELV cable, the led light on the tester will turn on.
- KEY CONTROL**
When you put the switch in the coil slot, the led turns on.
- REMOTE CONTROL**
When you press the buttons on the remote control key, the leds will turn on according to their function.
(CAS 1-2-3-4 - BDC/FEM)



- Mode 1** **BDC/FEM**
BDC/FEM Function
- Mode 2** **CAS-4+**
It was CAS-4, it works with D-CAN output via OBD without Gateway.
- Mode 3** **CAS-4+ Gateway**
With Gateway
- Mode 4** **CAS-1-2-3+ Gateway**
With Gateway
- Mode 5** **CAS 1-2-3+**
It was CAS-4, it works with D-CAN output via OBD without Gateway.
- Mode 6** **STANDART OBD/ECU Mode**
PT-CAN outputs on CAN Control outputs automatically convert to D-CAN.
- Mode 7** **ECU Control with ZGW (No BDC/FEM CAS-4)**
With Gateway
- Mode 8** **ECU Control with JBE (No CAS 1-2-3)**
- Mode 9** **ON-VEHICLE IGNITION EMULATOR**
With Gateway

CAR MODEL

BDC/FEM, CAS-1-2-3-4 with gateway without gateway
Standard OBD/ECU Mod / Ignition Emulator
Car Ignition Emulator toggle button.

SOCKET Functions

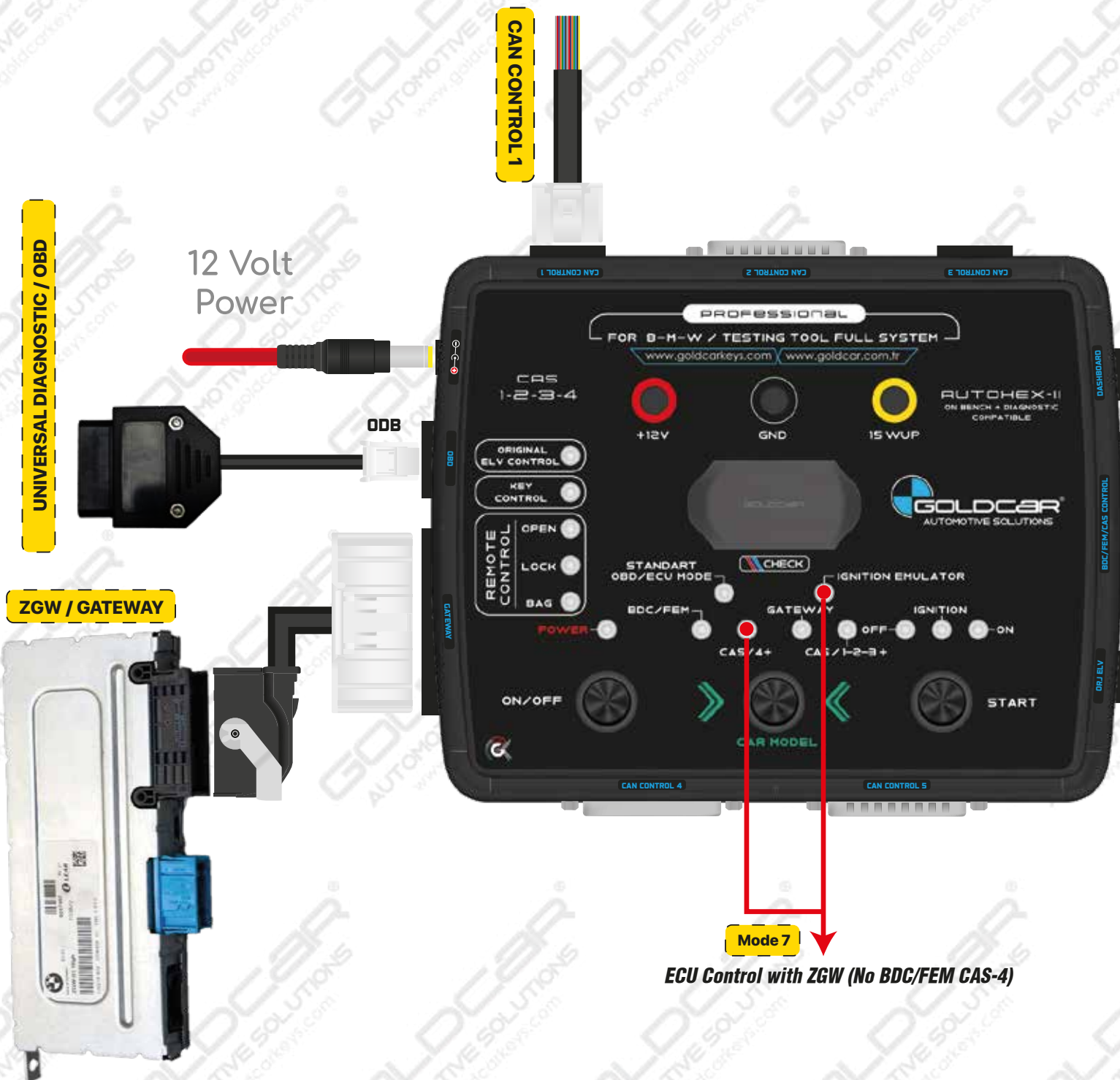


Mode 7

ECU Control with ZGW (No BDC/FEM CAS-4)

IGNITION EMULATOR

Thanks to the ignition emulator in the device, you can program the engine brain directly via OBD by connecting the ZGW Gateway without connecting the CAS 4 | BDC / FEM as if you are on the vehicle.



Mode 8

ECU Control with JBE (No CAS 1-2-3)

IGNITION EMULATOR

Thanks to the ignition emulator in the device, you can program the engine brain directly via OBD by connecting the JBE Gateway without connecting the CAS 1-2-3 as if you are on the vehicle.



UNIVERSAL DIAGNOSTIC / OBD

12 Volt Power

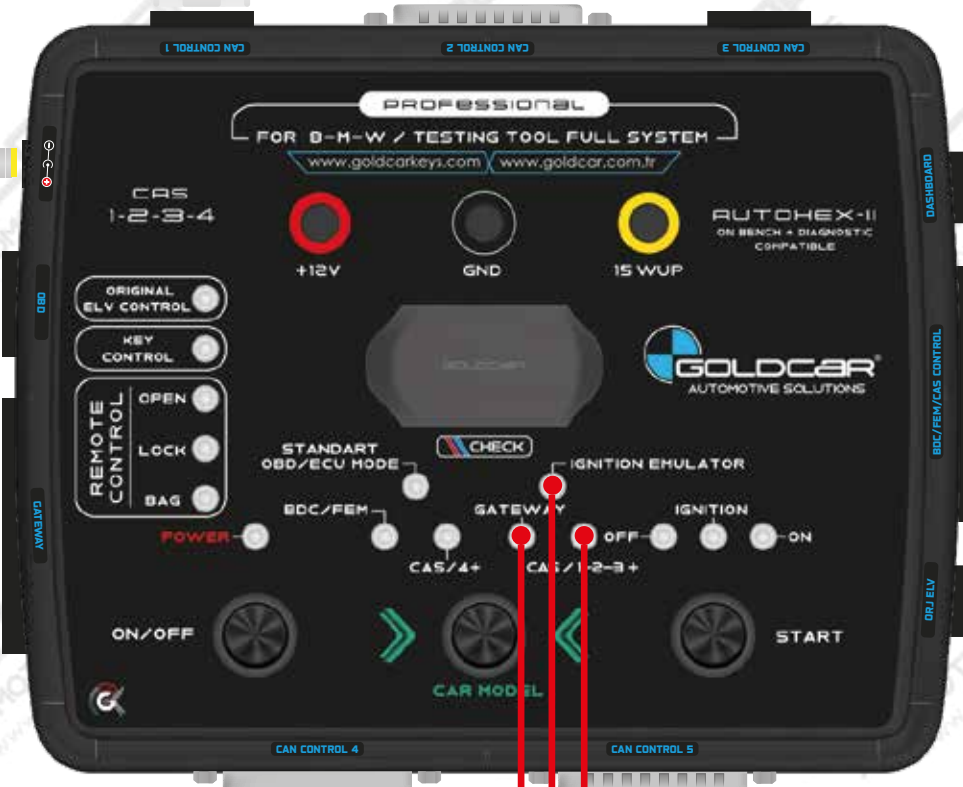
CAN CONTROL 1



OBD

JBE / GATEWAY

PIN 3



Mode 8

ECU Control with JBE (No CAS 1-2-3)

IGNITION TOOL - IGNITION EMULATOR



BMW Testing Tool Ignition Emulator light behavior

- Ignition emulator is opened by pressing the vehicle model button 9 times.
- BDC / FEM + CAS 4 LEDs are on and the ignition emulator LED is blinking.



Overview

The BMW Force Tool is used to open the car and also stops the alarm when you forget the key in the rear trunk or when you try to open the car with the pick key.

BMW FORCE TOOL is the first tool to work with CAS4 FEM BDC and NEW "G" Systems.

BMW FORCE TOOL works on all BMW based Systems including Rolls Royce. Being able to safely open circuit 15 also works on BMW electric Vehicles.



IGNITION
TOOL OF BMW
TESTING TOOL

CAN CONTROL OUTS

CAN CONTROL 1 AUTOHEX-II COMPATIBLE

BLACK	1	GND
BLACK	2	GND
WHITE	3	OBD 7
WHITE	4	OBD 9
WHITE	5	OBD 6 D-CAN-H
WHITE	6	OBD 14 D-CAN-L
WHITE	7	PT-CAN 2-H
WHITE	8	PT-CAN 2-L
WHITE	9	PT-CAN-H
WHITE	10	PT-CAN-L
RED	11	+12v OUT
RED	12	+12v OUT
RED	13	+12v OUT
WHITE	14	15 WUP
WHITE	15	FLEXRAY 1+
WHITE	16	FLEXRAY 1-
WHITE	17	FLEXRAY 1+
WHITE	18	FLEXRAY 1-
WHITE	19	PT-CAN-H2
WHITE	20	PT-CAN-L2

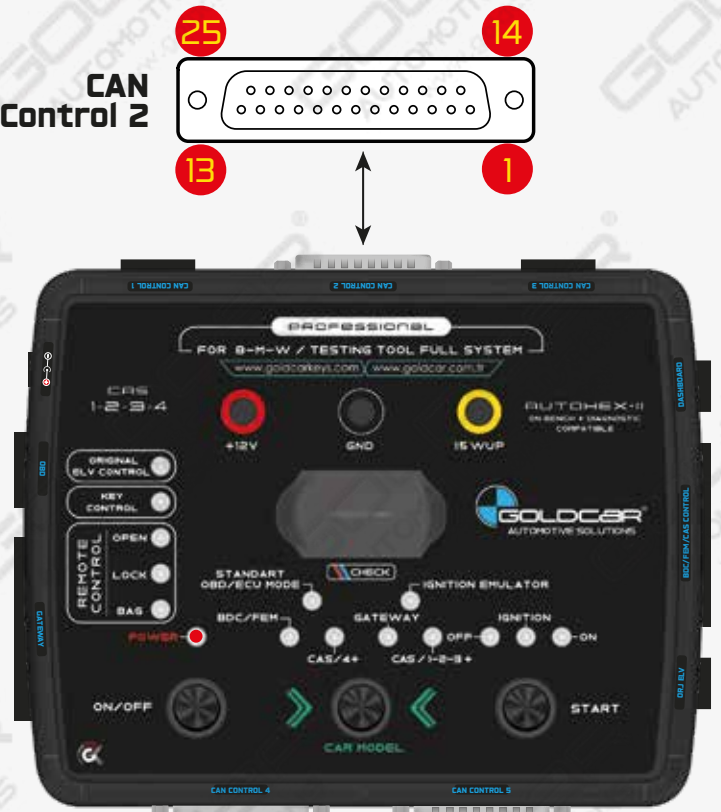
CAN Control 1



CAN CONTROL 2

RED	1	+12v OUT
RED	2	+12v OUT
BLACK	3	GND
BLACK	4	GND
WHITE	5	15 WUP
WHITE	6	F-CAN-L
WHITE	7	F-CAN-H
WHITE	8	PT-CAN-L
WHITE	9	PT-CAN-H
WHITE	10	PT-CAN 2-L
WHITE	11	PT-CAN 2-H
WHITE	12	K-CAN-L
WHITE	13	K-CAN-H
WHITE	14	K-CAN 2-L
WHITE	15	K-CAN 2-H
WHITE	16	K-CAN 3-L
WHITE	17	K-CAN 3-H
WHITE	18	OBD 6 D-CAN-H
WHITE	19	OBD 14 D-CAN-L
WHITE	20	OBD 9
WHITE	21	OBD 7
WHITE	22	FLEXRAY 0-
WHITE	23	FLEXRAY 0+
WHITE	24	FLEXRAY 1-
WHITE	25	FLEXRAY 1+

CAN Control 2



CAN CONTROL OUTS

CAN CONTROL 3

BLACK	1	GND
BLACK	2	GND
WHITE	3	FLEXRAY 1+
WHITE	4	FLEXRAY 1-
WHITE	5	K-CAN 3-H
WHITE	6	K-CAN 3-L
WHITE	7	K-CAN 2-H
WHITE	8	K-CAN 2-L
WHITE	9	K-CAN-H
WHITE	10	K-CAN-L
RED	11	+12v OUT
RED	12	+12v OUT
WHITE	13	15 WUP
WHITE	14	OBD 9
WHITE	15	PT-CAN 2-H
WHITE	16	PT-CAN 2-L
WHITE	17	F-CAN-H
WHITE	18	F-CAN-L
WHITE	19	PT-CAN-H
WHITE	20	PT-CAN-L

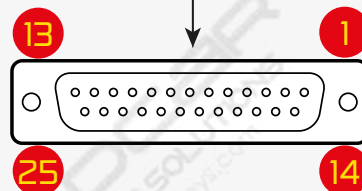
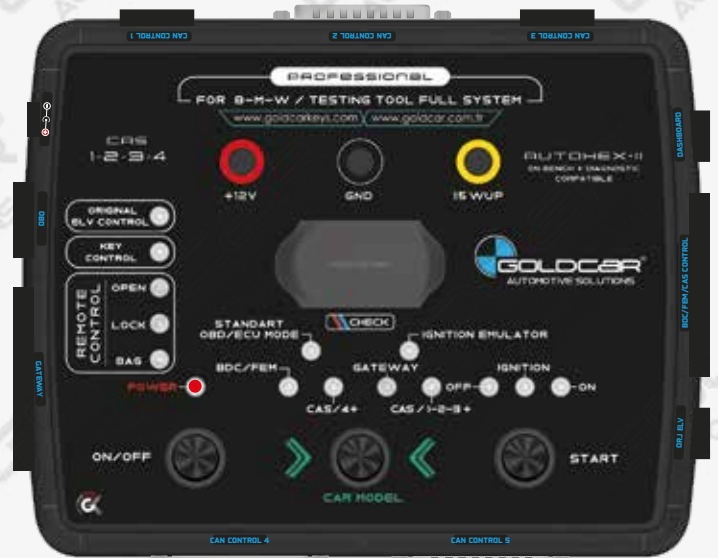
CAN Control 3



CAN CONTROL 4

AUTOHEX-II ON BENCH

RED	1	+12v OUT
RED	2	+12v OUT
BLACK	3	GND
BLACK	4	GND
	5	
ORANGE	6	CAN-L2 / PTCAN-L
YELLOW	7	CAN-H2 / PTCAN-H
	8	
	9	
BROWN	10	CAN-L1 / OBD-14 L
WHITE	11	CAN-H1 / OBD-6 H
PURPLE	12	CLK-1
LIGHT BLUE	13	CLK-2
	14	
	15	
GREEN	16	PT-CAN-L / OBD-11
	17	
	18	
BLUE	19	PT-CAN-H / OBD-3
	20	
	21	
	22	
	23	
	24	
	25	

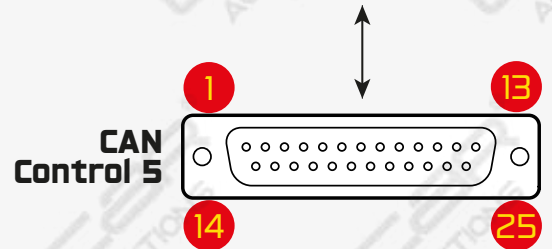
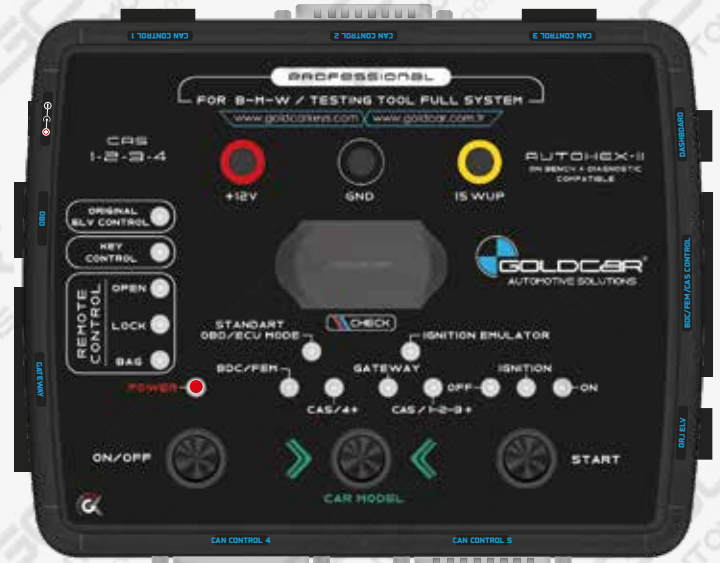


CAN Control 4

CAN CONTROL OUTS

CAN CONTROL 5

	1	+12v OUT
	2	+12v OUT
	3	GND
	4	GND
WHITE	5	15 WUP
WHITE	6	F-CAN-L
WHITE	7	F-CAN-H
WHITE	8	PT-CAN-L
WHITE	9	PT-CAN-H
WHITE	10	FLEXRAY 0-
WHITE	11	FLEXRAY 0+
WHITE	12	FLEXRAY 1-
WHITE	13	FLEXRAY 1+
WHITE	14	FLEXRAY 2-
WHITE	15	FLEXRAY 2+
WHITE	16	FLEXRAY 3-
WHITE	17	FLEXRAY 3+
WHITE	18	FLEXRAY 4-
WHITE	19	FLEXRAY 4+
WHITE	20	FLEXRAY 5-
WHITE	21	FLEXRAY 5+
WHITE	22	FLEXRAY 6-
WHITE	23	FLEXRAY 6+
WHITE	24	FLEXRAY 7-
WHITE	25	FLEXRAY 7+



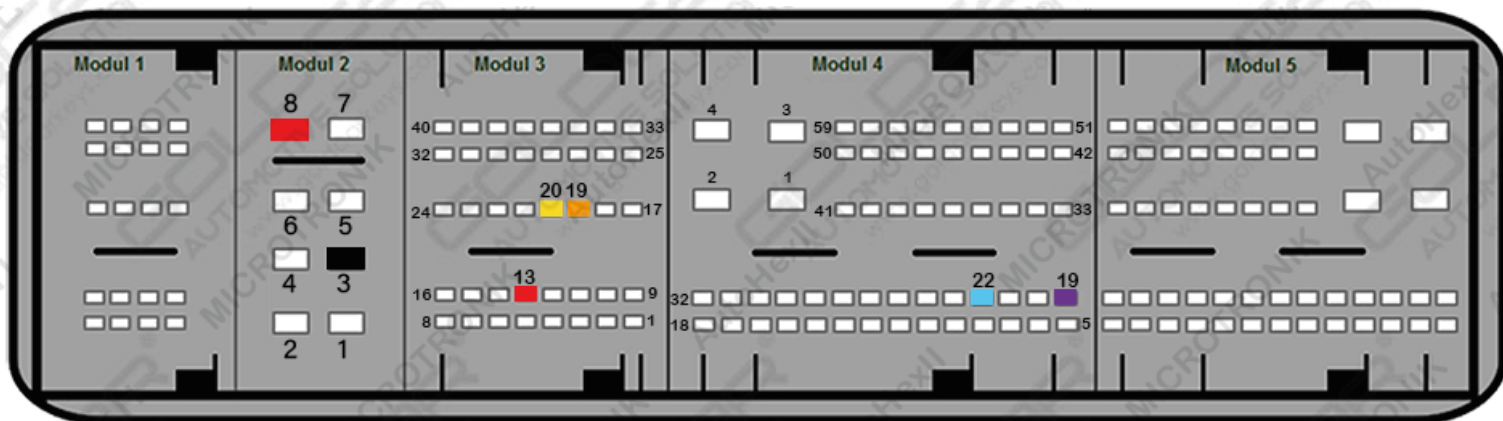
GOLDCAR TRICORE Cable

**AUTOHEX-II
ON Bench Manual**

EDC17C41 / EDC17CP09 / EDC17CP45

EDC17C41, EDC17CP45

- Autohex-II Software ON-Bench (Please +12V AUTOHEX-II)
- Unplug DME from the car (Located)
- Connect wires to DME based on the below connection diagram using Goldcar TriCore cable
- Select the DME Type from AutoHex software
- Read ISN from DME



MODUL 2, 08: Out +12V
MODUL 3, 13: Out +12V

MODUL 2, 03: GND

MODUL 3, 20: PT-CAN H
MODUL 3, 19: PT-CAN L

MODUL 4, 19: CLK1
MODUL 4, 22: CLK2

Goldcar AUTOHEX-II Compatible TRICORE Cable



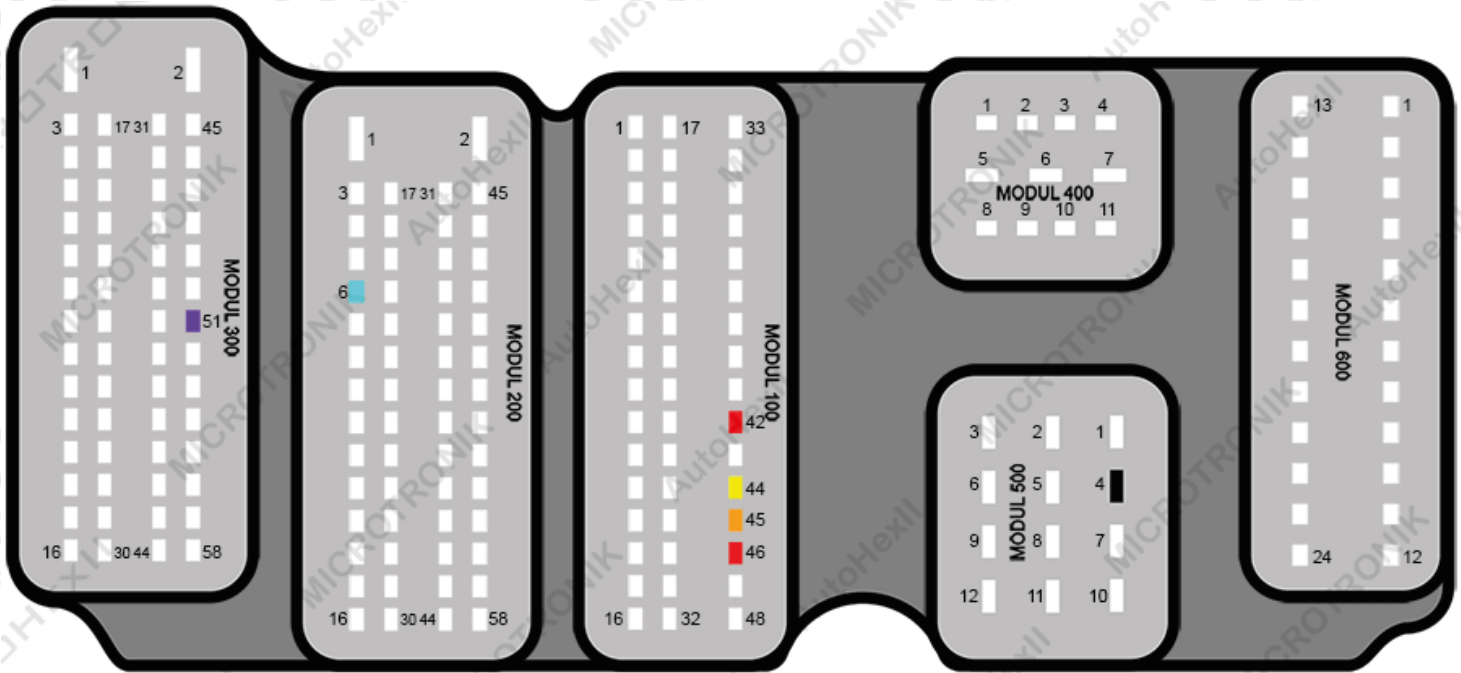
GOLDCAR TRICORE Cable

MEVD172

AUTOHEX-II
ON Bench Manual

MEVD172, MEVD1726, MEVD172G

- Autohex-II Software ON-Bench (Please +12V AUTOHEX-II)
- Unplug DME from the car (Located)
- Connect wires to DME based on the below connection diagram using Goldcar TriCore cable
- Select the DME Type from AutoHex software
- Read ISN from DME



MODUL 100, 42: Out +12V
MODUL 100, 46: Out +12V

MODUL 500, 04: GND

MODUL 100, 44: PT-CAN H
MODUL 100, 45: PT-CAN L

MODUL 300, 51: CLK1
MODUL 200, 6: CLK2

Goldcar AUTOHEX-II Compatible TRICORE Cable

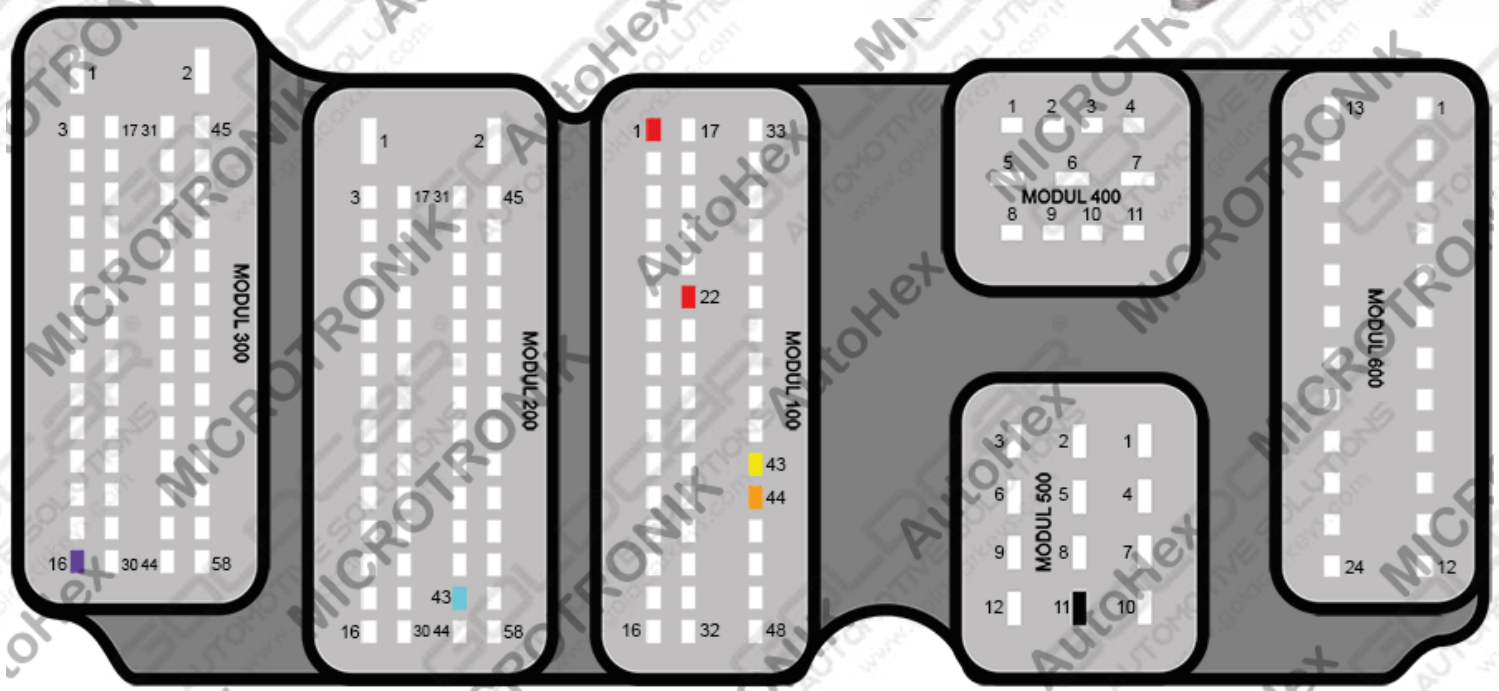
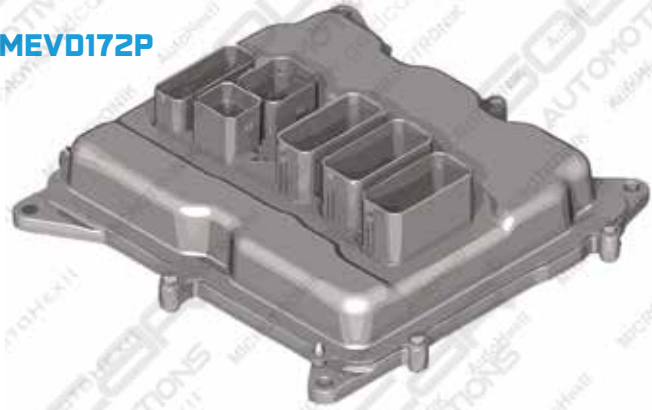


GOLDCAR TRICORE Cable MEVD1724

**AUTOHEX-II
ON Bench Manual**

MEVD1724, MEVD1725, MEVD1728, MEVD1729, MEVD172H, MEVD172P

- Autohex-II Software ON-Bench (Please +12V AUTOHEX-II)
- Unplug DME from the car (Located)
- Connect wires to DME based on the below connection diagram using Goldcar TriCore cable
- Select the DME Type from AutoHex software
- Read ISN from DME



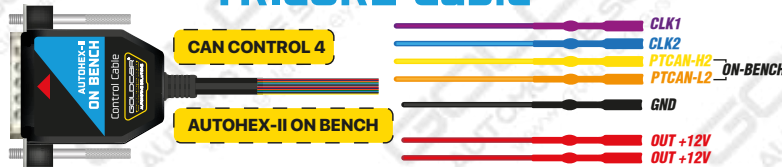
MODUL 100, 1: Out +12V
MODUL 100, 22: Out +12V

MODUL 500, 11: GND

MODUL 100, 43: PT-CAN H
MODUL 100, 44: PT-CAN L

MODUL 300, 16: CLK1
MODUL 200, 43: CLK2

Goldcar AUTOHEX-II Compatible TRICORE Cable



GOLDCAR TRICORE Cable

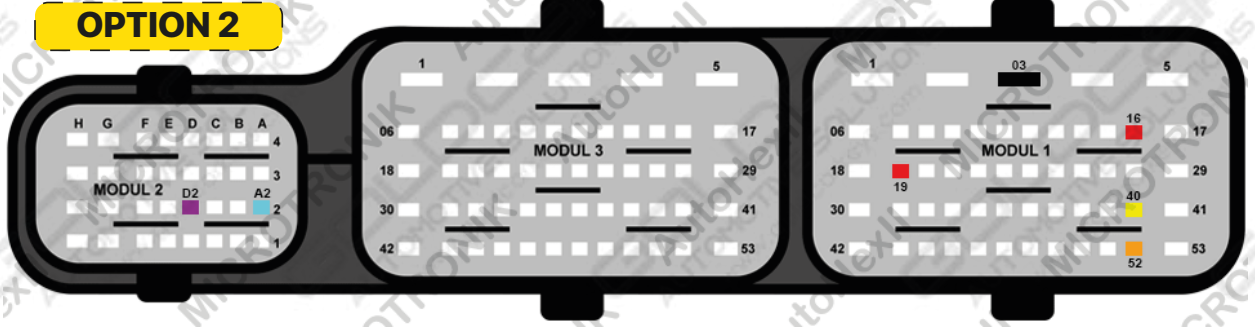
MEV17.2, MED17.2

AUTOHEX-II ON Bench
Product Manual

- Autohex-II Software ON-Bench (Please +12V AUTOHEX-II)
- Unplug DME from the car (Located)
- Connect wires to DME based on the below connection diagram using Goldcar TriCore cable
- Select the DME Type from AutoHex software
- Read ISN from DME



OPTION 2



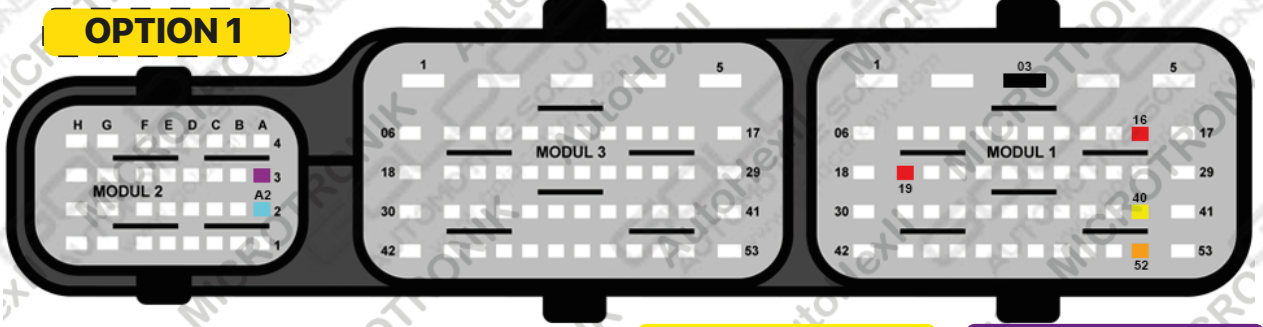
MODUL 1, 16: Out +12V
MODUL 1, 19: Out +12V

MODUL 1, 3: GND

MODUL 1, 40: PT-CAN H
MODUL 1, 52: PT-CAN L

MODUL 2, D2: CLK1
MODUL 2, A2: CLK2

OPTION 1



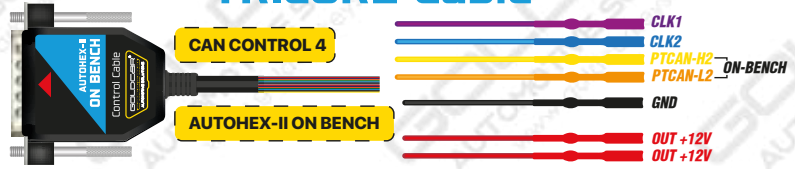
MODUL 1, 16: Out +12V
MODUL 1, 19: Out +12V

MODUL 1, 3: GND

MODUL 1, 40: PT-CAN H
MODUL 1, 52: PT-CAN L

MODUL 2, A3: CLK1
MODUL 2, A2: CLK2

Goldcar AUTOHEX-II Compatible TRICORE Cable



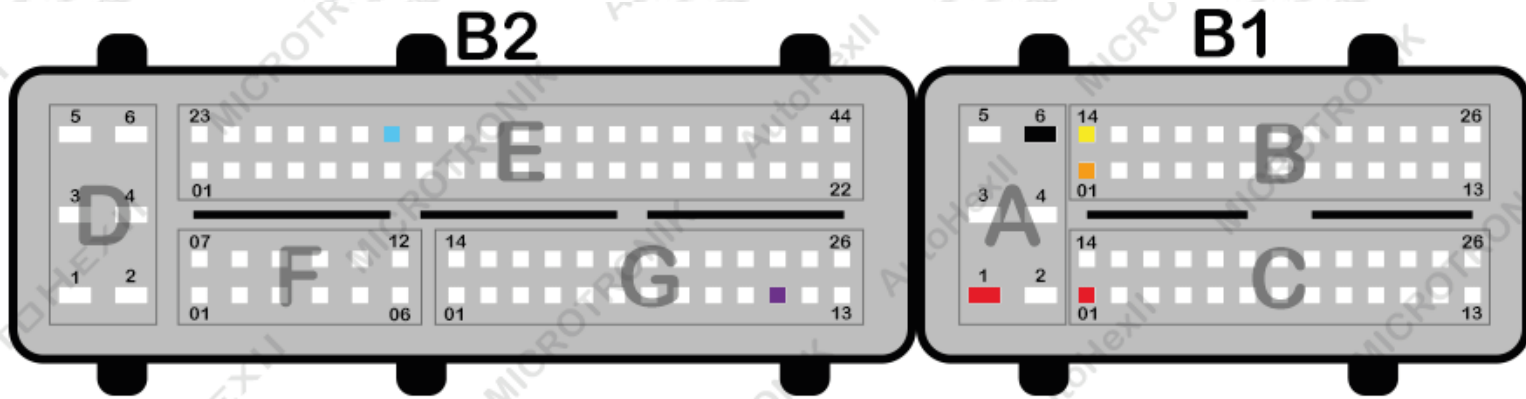
GOLDCAR TRICORE Cable

MEV17.4.6

MEV17.4.6

**AUTOHEX-II ON Bench
Product Manual**

- Autohex-II Software ON-Bench (Please +12V AUTOHEX-II)
- Unplug DME from the car (Located)
- Connect wires to DME based on the below connection diagram using Goldcar TriCore cable
- Select the DME Type from AutoHex software
- Read ISN from DME



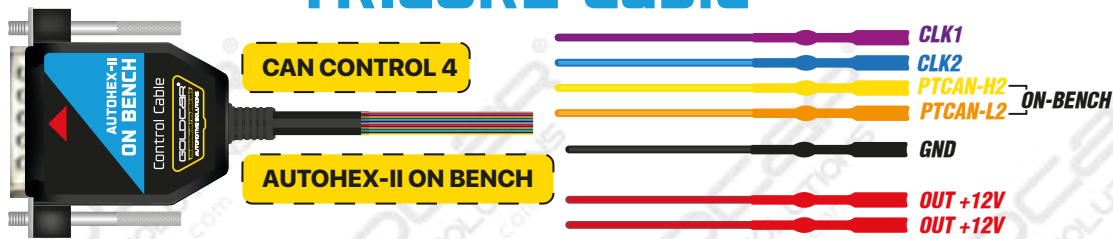
MODUL 1, A01: Out +12V
MODUL 1, C01: Out +12V

MODUL 1, A06: GND

MODUL 1, B14: PT-CAN H
MODUL 1, B01: PT-CAN L

MODUL 2, G11: CLK1
MODUL 2, E29: CLK2

Goldcar AUTOHEX-II Compatible TRICORE Cable



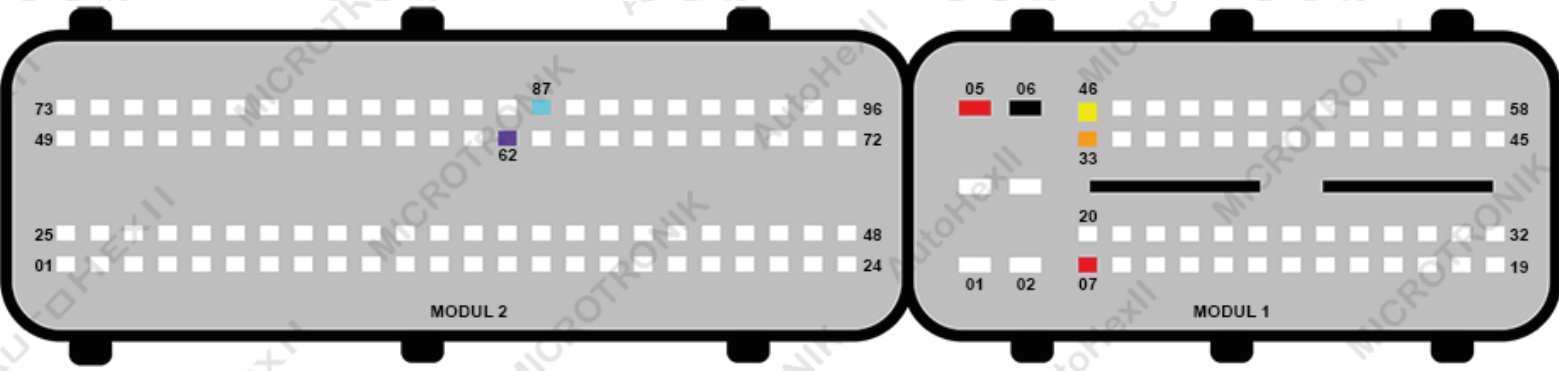
GOLDCAR TRICORE Cable

EDC17CP02

EDC17CP02

**AUTOHEX-II ON Bench
Product Manual**

- Autohex-II Software ON-Bench (Please +12V AUTOHEX-II)
- Unplug DME from the car (Located)
- Connect wires to DME based on the below connection diagram using Goldcar TriCore cable
- Select the DME Type from AutoHex software
- Read ISN from DME



MODUL 1, 05: Out +12V
MODUL 1, 07: Out +12V

MODUL 1, 06: GND

MODUL 1, 46: PT-CAN H
MODUL 1, 33: PT-CAN L

MODUL 2, 62: CLK1
MODUL 2, 87: CLK2

Goldcar AUTOHEX-II Compatible TRICORE Cable



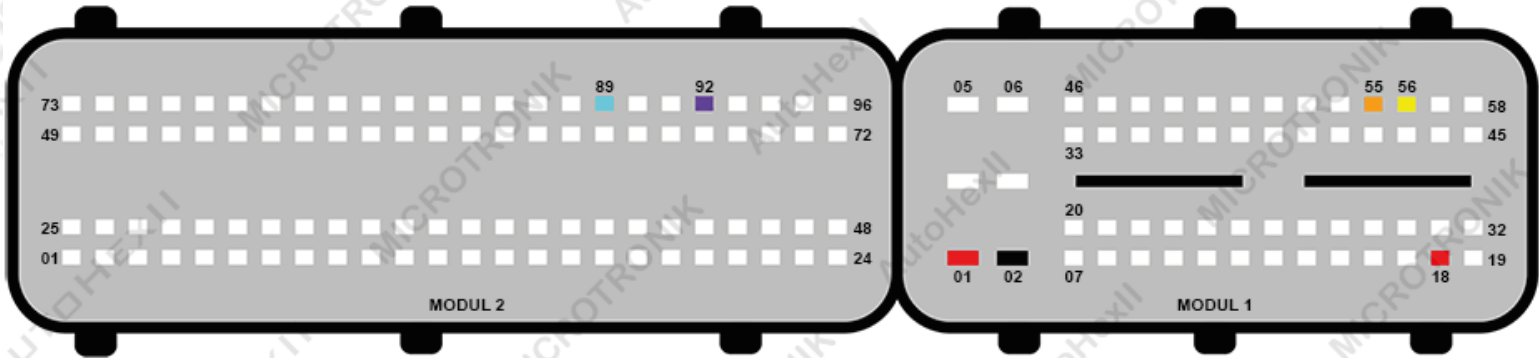
GOLDCAR TRICORE Cable

EDC17Cp49

AUTOHEX-II ON Bench
Product Manual

EDC17Cp49, EDC17C50, EDC17C56, EDC17C76

- Autohex-II Software ON-Bench (Please +12V AUTOHEX-II)
- Unplug DME from the car (Located)
- Connect wires to DME based on the below connection diagram using Goldcar TriCore cable
- Select the DME Type from AutoHex software
- Read ISN from DME



MODUL 1, 01: Out +12V
MODUL 1, 18: Out +12V

MODUL 1, 02: GND

MODUL 1, 56: PT-CAN H
MODUL 1, 55: PT-CAN L

MODUL 2, 92: CLK1
MODUL 2, 89: CLK2

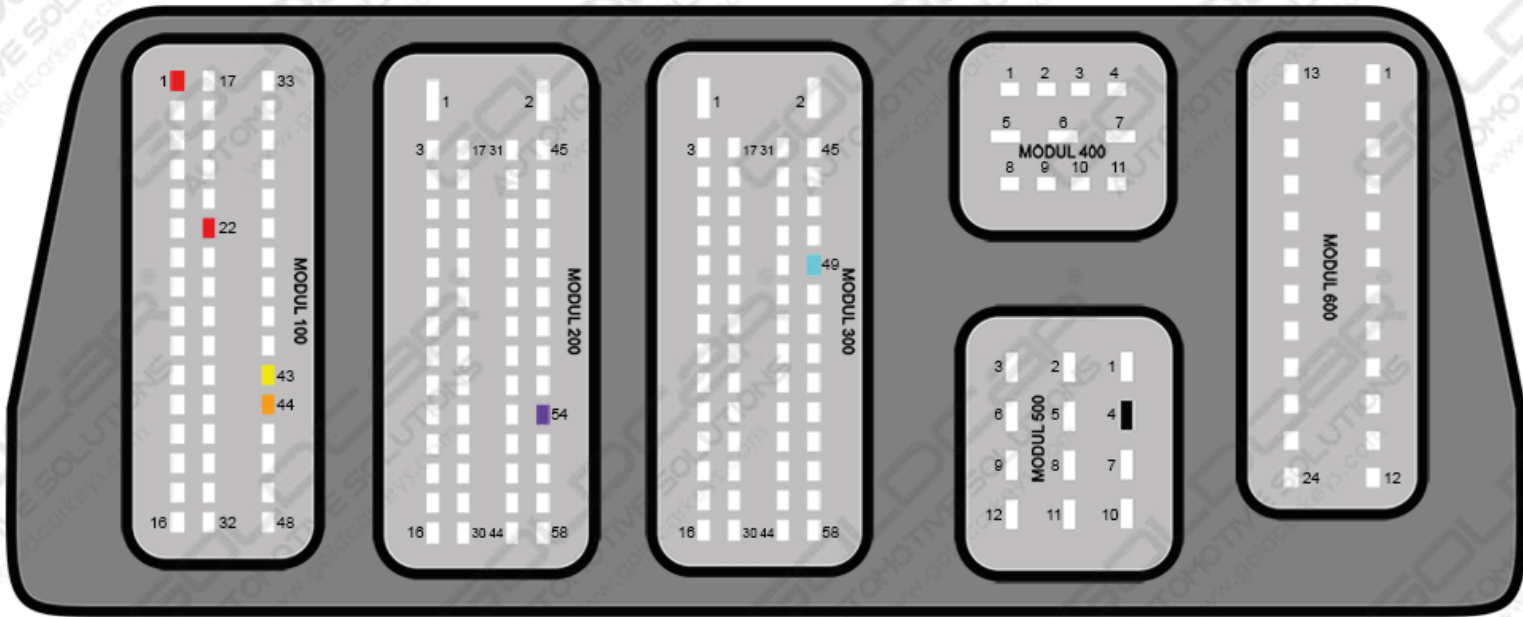
Goldcar AUTOHEX-II Compatible TRICORE Cable



GOLDCAR TRICORE Cable MEVD1723

**AUTOHEX-II ON Bench
Product Manual**

- Autohex-II Software ON-Bench (Please +12V AUTOHEX-II)
- Unplug DME from the car (Located)
- Connect wires to DME based on the below connection diagram using Goldcar TriCore cable
- Select the DME Type from AutoHex software
- Read ISN from DME



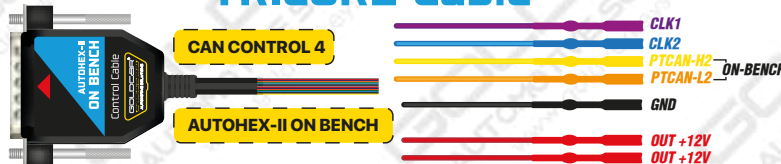
MODUL 100, 1: Out +12V
MODUL 100, 22: Out +12V

MODUL 500, 4: GND

MODUL 100, 43: PT-CAN H
MODUL 100, 44: PT-CAN L

MODUL 200, 54: CLK1
MODUL 300, 49: CLK2

Goldcar AUTOHEX-II Compatible TRICORE Cable



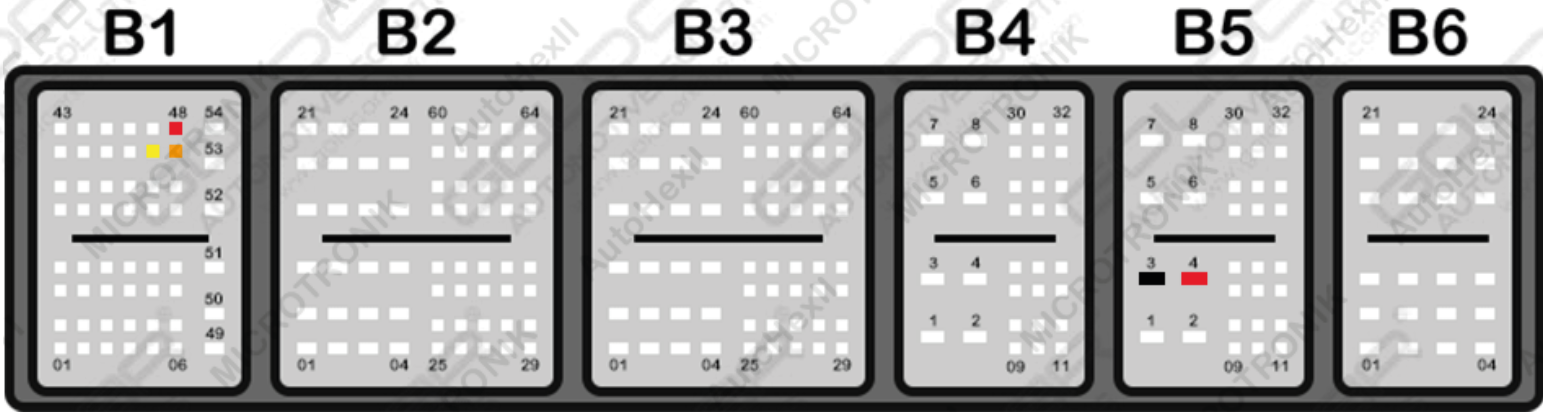
GOLDCAR TRICORE Cable

**AUTOHEX-II ON Bench
Product Manual**

MD1/MG1

MD1/MG1

- Autohex-II Software ON-Bench (Please +12V AUTOHEX-II)
- Unplug DME from the car (Located)
- Connect wires to DME based on the below connection diagram using Goldcar TriCore cable
- Select the DME Type from AutoHex software
- Read ISN from DME



MODUL 5, 04: Out +12V
MODUL 1, 48: Out +12V

MODUL 5, 03: GND

MODUL 1, 41: PT-CAN H
MODUL 1, 42: PT-CAN L

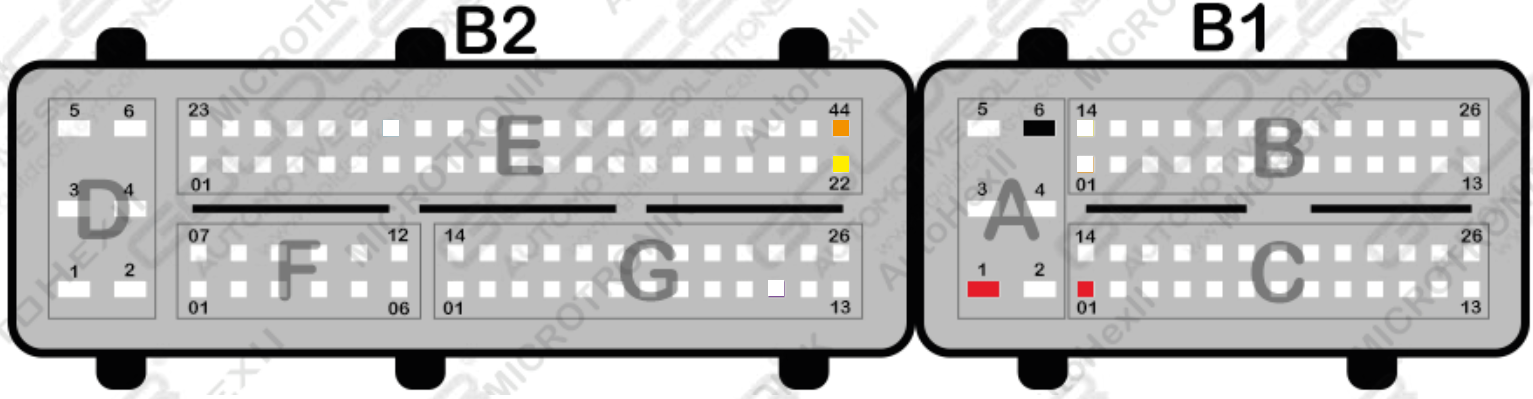
Goldcar AUTOHEX-II Compatible TRICORE Cable



GOLDCAR TRICORE Cable On Bench MSD80 ISN

**AUTOHEX-II ON Bench
Product Manual**

- Autohex-II Software ON-Bench (Please +12V AUTOHEX-II)
- Use bellow wrining to connect HW4 to the DME.
- Autohex-II Software On-Bench MSD8X ISN

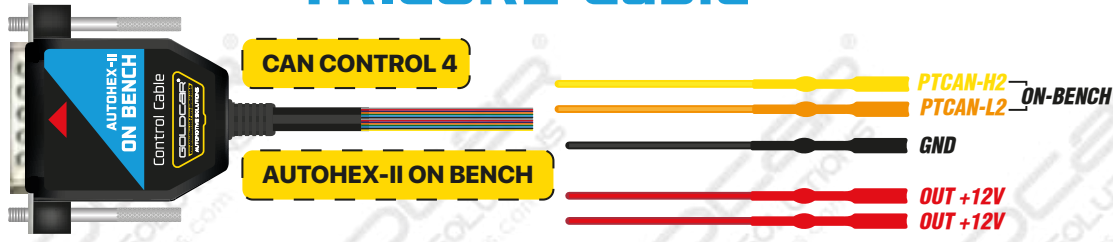


MODUL 1, C01: Out +12V
MODUL 1, A01: Out +12V

MODUL 1, A6: GND

MODUL 2, E22: PT-CAN H
MODUL 2, E44: PT-CAN L

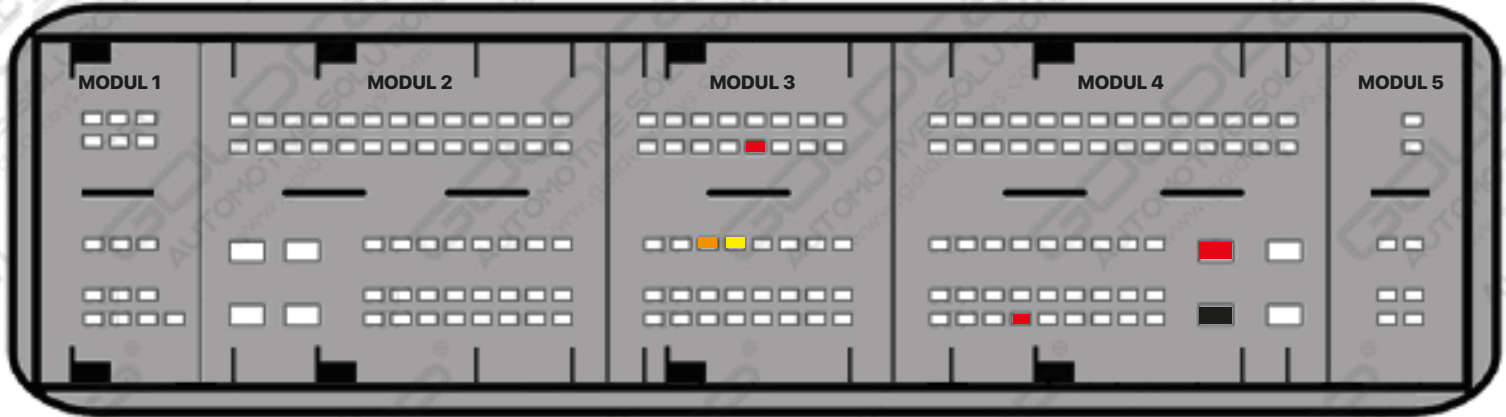
Goldcar AUTOHEX-II Compatible TRICORE Cable



GOLDCAR TRICORE Cable On Bench MSD85 / MSD87 ISN

**AUTOHEX-II ON Bench
Product Manual**

- Autohex-II Software ON-Bench (Please +12V AUTOHEX-II)
- Use bellow wrining to connect HW4 to the DME.
- Autohex-II Software On-Bench MSD8X ISN



MODUL 3, 13: Out +12V
MODUL 4, 01: Out +12V
MODUL 4, 54: Out +12V

MODUL 4, 03: GND

MODUL 3, 20: PT-CAN H
MODUL 3, 19: PT-CAN L

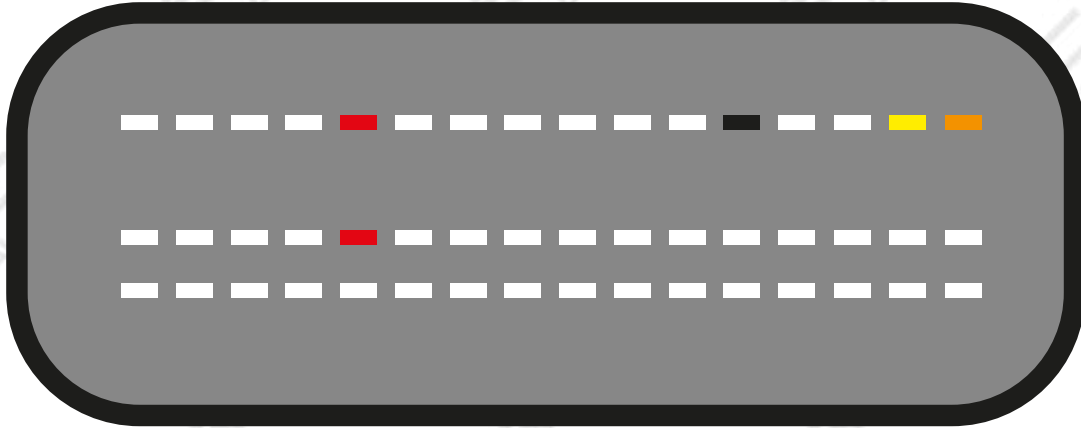
Goldcar AUTOHEX-II Compatible TRICORE Cable



GOLDCAR TRICORE Cable On Bench MSD90 ISN

**AUTOHEX-II ON Bench
Product Manual**

- Autohex-II Software ON-Bench (Please +12V AUTOHEX-II)
- Use bellow wrining to connect HW4 to the DME.
- Autohex-II Software On-Bench MSD8X ISN

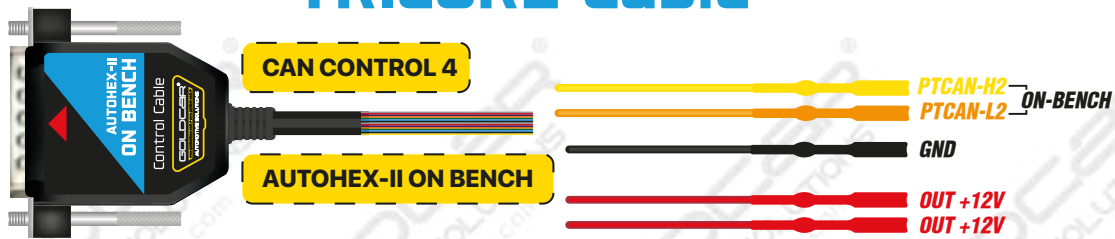


21 : Out +12V
37: Out +12V

44: GND

47: PT-CAN H
48: PT-CAN L

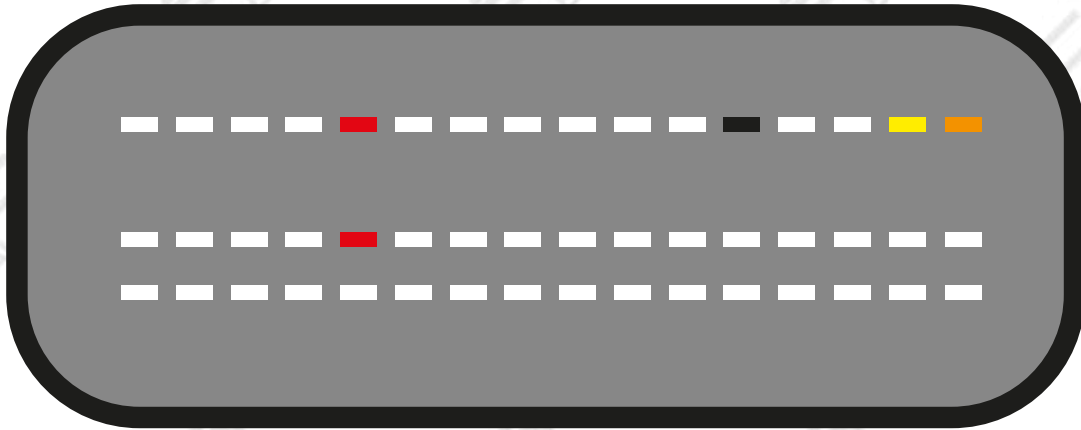
Goldcar AUTOHEX-II Compatible TRICORE Cable



GOLDCAR TRICORE Cable On Bench MSD90 ISN

**AUTOHEX-II ON Bench
Product Manual**

- Autohex-II Software ON-Bench (Please +12V AUTOHEX-II)
- Use bellow wrining to connect HW4 to the DME.
- Autohex-II Software On-Bench MSD8X ISN

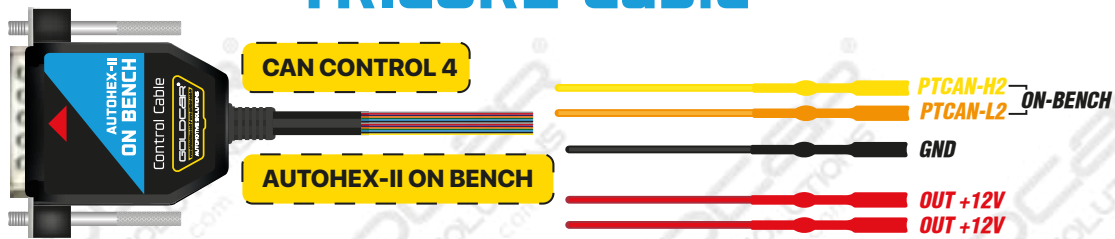


21 : Out +12V
37: Out +12V

44: GND

47: PT-CAN H
48: PT-CAN L

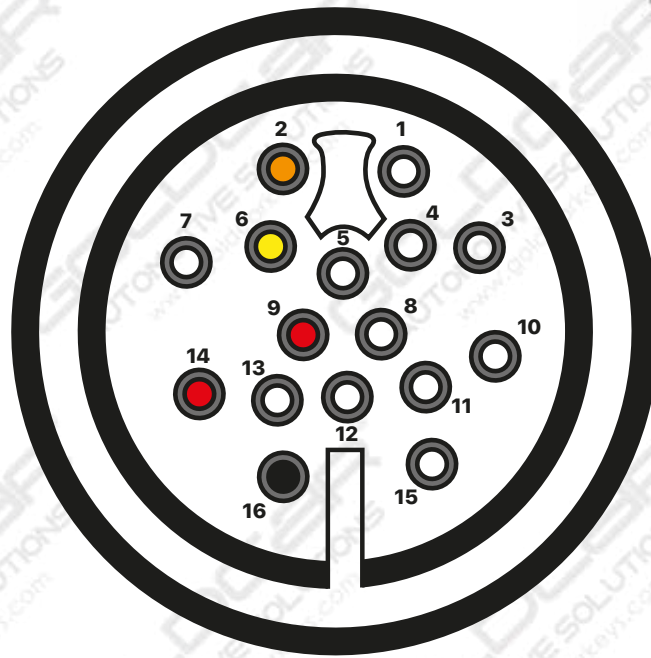
Goldcar AUTOHEX-II Compatible TRICORE Cable



GOLDCAR TRICORE Cable On Bench EWS FOR 6HP

**AUTOHEX-II ON Bench
Product Manual**

- Autohex-II Software ON-Bench (Please +12V AUTOHEX-II)
- Use bellow wiring to connect HW4 to the DME.
- Autohex-II Software On-Bench EGS EWS Reset



14 : Out +12V
9 : Out +12V

16 : GND

6 : PT-CAN H
2 : PT-CAN L

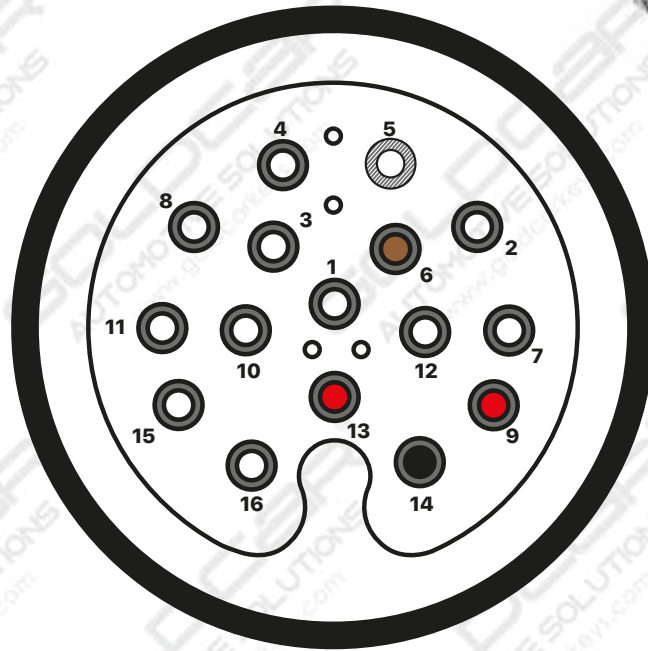
Goldcar AUTOHEX-II Compatible TRICORE Cable



GOLDCAR TRICORE Cable On Bench EWS FOR 8HP

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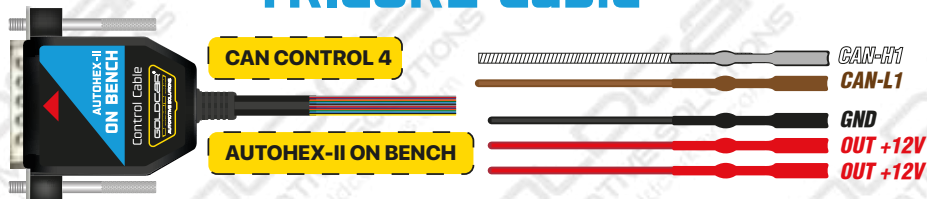


9 : Out +12V
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Goldcar AUTOHEX-II Compatible TRICORE Cable



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