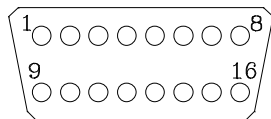


ICOM A  
OBD2  
16 pin  
Male

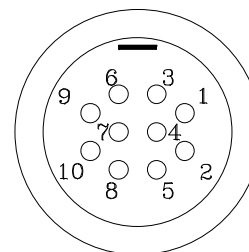
Signal

ICOM C  
Active  
Signals

OBD2 16 pin Female



Both  
Viewed  
from  
Front



BMW  
10 Pin  
Plug

Diagnostics Plug Information

Manufacturer - Kostal  
Body Part No - 09431001

Also used on E36/E39 6 cylinder  
Ignition Wiring Harness  
Part No 1 744 589A

Adaptor Cable

|    |                     |       |       |    |
|----|---------------------|-------|-------|----|
| 1  | KI 15 (Ignition On) | _____ | _____ | 10 |
| 2  | SIA Reset Signal    | _____ | _____ |    |
| 3  | Ethernet Rx+        | _____ | _____ |    |
| 4  | Ground (-)          | _____ | _____ | 4  |
| 5  | Ground (-)          | _____ | _____ |    |
| 6  | CAN High            | _____ | _____ | 7  |
| 7  | K-Line 1            | —BMS— | _____ | 1  |
| 8  | K-Line 2            | —ABS— | _____ | 2  |
| 9  | TD Signal (RPM)     | _____ | _____ |    |
| 10 | Not Used            |       | _____ |    |
| 11 | Ethernet Rx -       |       | _____ |    |
| 12 | Ethernet Tx +       |       | _____ |    |
| 13 | Ethernet Tx -       |       | _____ |    |
| 14 | CAN Low             |       | _____ | 9  |
| 15 | Not Used            |       | _____ |    |
| 16 | KL 30 (Bat +)       | _____ | _____ | 6  |

See  
Notes  
2 & 4

| Model Plug Pinout & Wiring Color Code |       |       |       |                |       |
|---------------------------------------|-------|-------|-------|----------------|-------|
| G450X                                 | 650GS | F800  | S1000 | 1200GS         | K1600 |
| Gn/Bl                                 |       | Gn    | Gn    |                |       |
| Br                                    | Br/Or | Br    | Br    | Br             | Br    |
| Br/Sw                                 | Br/Sw | Br/Sw | Br/Sw | Br/Sw<br>Ge/Ws | Ws/Sw |
|                                       |       |       |       |                | Ws/Br |
| Rt/Ws                                 | Rt/Ws | Rt/Ws | Rt/Ws | Rt             | Rt/Sw |

- Notes
- 1/ ICOM C adaptor info included to assist in determining what additional pins may be needed for each model
  - 2/ May need to link OBD pins 1 & 16 to give ignition on signal to ICOM for some models (switch in OBDII backshell ?)
  - 3/ SIA & TD signals may be used on some models, none identified so far
  - 4/ BMW 10 pin plug loop of pins 6 & 10 needed for G450X (Overcomes Ignition time out) (switch in OBDII backshell ?)
  - 5/ Old Models use Pin 9 (blue) for alternator & Pin 10 (Yellow/Grey) for injector

Models/Software Tested

- 1/ F650GS Single SS/DS with ISTA & INPA/EDIABAS
- 2/
- 3/
- 4/

BMW Color Codes

Sw-Black, Ws-White, Gn-Green, Br-Brown, Rt-Red, Bl-Blue, Or-Orange

ICOM Adaptor OBD2 Female to BMW 10 pin K-Line/CAN

Date: 01/05/12

Revision: A