CANNECT INSTALLATION FILE	BMW X1 (F48) 2016 -
AV3 **DUO** **IGNITION PARKBRAKE** **NAV** **NAV3** **PARKBRAKE** **POWER** **POWER RPM** **POWER RPM (7s)** **PULSE** **RPM** **TWINPULSE**	The CAN wiring is located at the Forward Electronics Module, behind the passenger side kick trim. Locate the top Black plug at the FEM. CAN HI = Red CAN LO = Yellow

Please ensure that you connect the product to the vehicle CAN Bus wires detailed above.

CANNECT Wire	Product	Wire Connection Point Or Output Function
RED	>	Connect via a 5A fuse to a **PERMANENT 12v** supply.
BLACK	>	Connect to a good chassis **GROUND** point.
WHITE	>	CAN HI Connection : Vehicle **CAN HI** wire.
BLUE	>	CAN LO Connection : Vehicle **CAN LO** wire.
GREEN	PULSE TWINPULSE DUO, NAV, NAV3	Speed Signal Output : 12v pulsing (1 Hz = 1 MPH approx).
PURPLE	AV3, NAV, NAV3 DUO, POWER IGN-PARKBRAKE	Ignition On Output : 12v (1A max) when the ignition is switched on.
	PARKBRAKE	Park Brake Output : 12v (1A max) when the park brake is engaged.
	POWER RPM / (7s)	RPM Output : 12v (1A max) when engine speed is above 500 RPM / (for 7 seconds).
ORANGE	NAV	Illumination Output : 12v (1A max) when the side / head lights are active.
BROWN	AV3, NAV, NAV3	Reverse Output : 12v (1A max) when reverse gear is selected.
PINK	AV3, NAV IGN-PARKBRAKE	Park Brake Output : 0v (1A max) when the park brake is engaged.
YELLOW	RPM, TWINPULSE	RPM Signal Output : 12v pulsing (1 Hz = 1 RPM approx).

Some outputs may be unavailable due to the specification of the subject vehicle. The output wires listed above may not be featured on all interfaces. Wiring details correspond to our standard range of interfaces. For bespoke software, please refer to the specific instructions provided with your unit. Speed and RPM pulse signal frequencies may differ from those detailed above depending on the specific unit ordered.
Some vehicles feature 'Key-In' detection, on these vehicles the ignition output will remain active (for a maximum of 30 minutes) if the ignition is turned off and the key remains in the ignition.

Installation Testing

Connect the interface to the plug-in wiring harness and turn the vehicle's ignition 'on'

The CANNECT interface switches on automatically when CAN activity is detected. The interface has an LED status indicator next to the connection plug, which will illuminate GREEN when valid CAN data has been identified by the interface. When the vehicle is moving, the GREEN LED will flash to indicate that CAN Bus speed information is being processed.

If the LED indicator is illuminated RED for more than 10 seconds, the interface is functioning but cannot identify the vehicle. It is very important that the interface is only connected to the vehicle CAN Bus wiring at the connection point location detailed at the top of the page. If the LED remains solid RED, please disconnect and re-connect the unit from the harness with the ignition on.

If the LED fails to illuminate or flash, there is a power connection problem - recheck the connections. If the LED flashes RED continuously, the interface is powered but is not reading CAN data. Check the interface CAN HI and CAN LO connections are the correct way around. Also check that these wires are connected to the CAN Bus wires as detailed above.

The CANNECT interface automatically switches off when the vehicle CAN Bus is inactive. This can be tested by removing the keys from the ignition, closing all vehicle doors and switching all auxilliary equipment 'off'. The interface LED should extinguish within 60 seconds.

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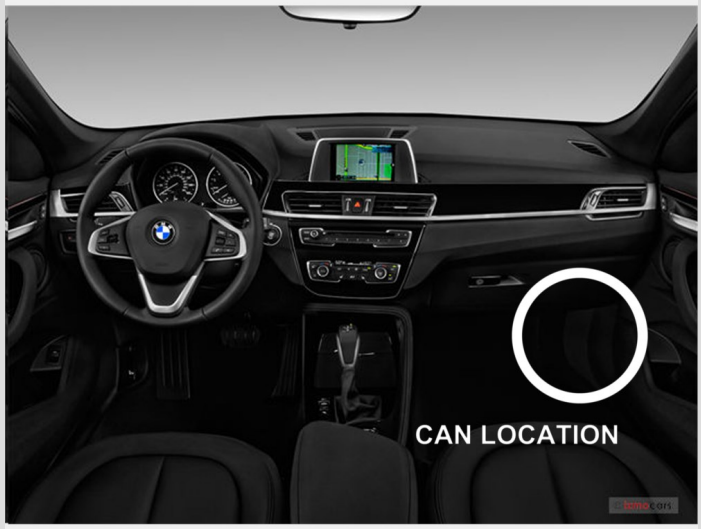

Dash Example