



Ryder Towing Equipment Ltd

Vehicle-Specific Towing Electrical Kits

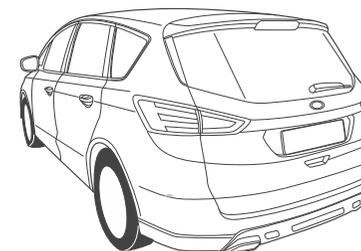
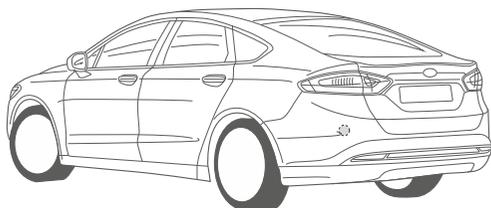
TF2351FORD1

Ford Mondeo Saloon 11/2014-

Ford Mondeo Estate 11/2014-

Ford S-Max 09/2015-

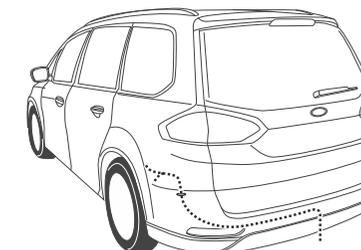
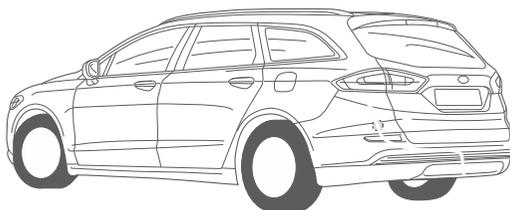
Ford Galaxy 09/2015-



Caravan Auxiliary (12S) function is built in

Installation is simple and quick - no need to “take the vehicle apart”.

High-quality connections throughout are easy and uncomplicated



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Page 4	Kit components
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Fully compatible with vehicle management systems to activate all vehicle safety features

Type approved and built to OEM standards

Instructions are easy to follow

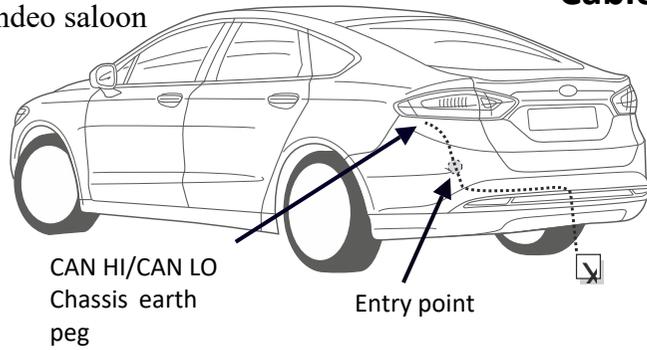
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Quality – Service – Innovation

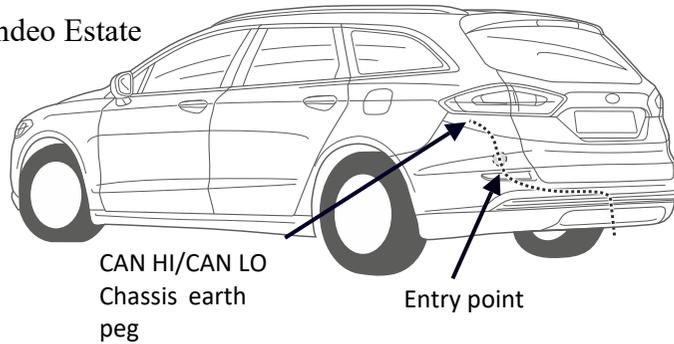
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Cable routing, CAN & power connections

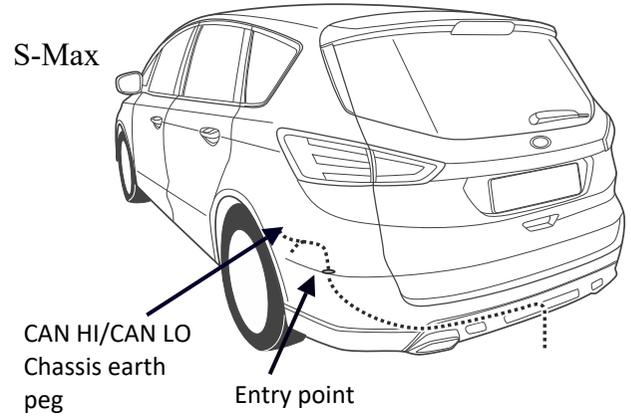
Mondeo saloon



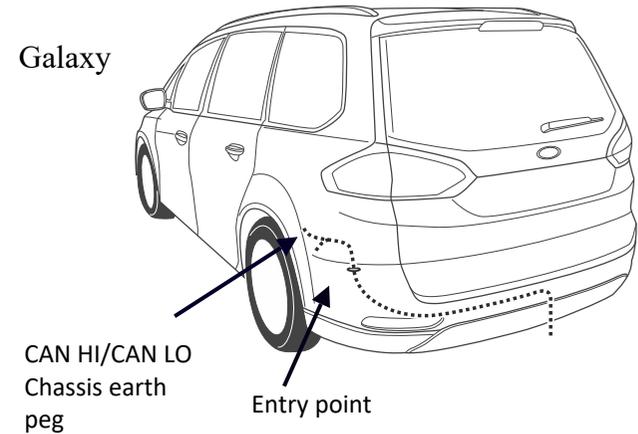
Mondeo Estate



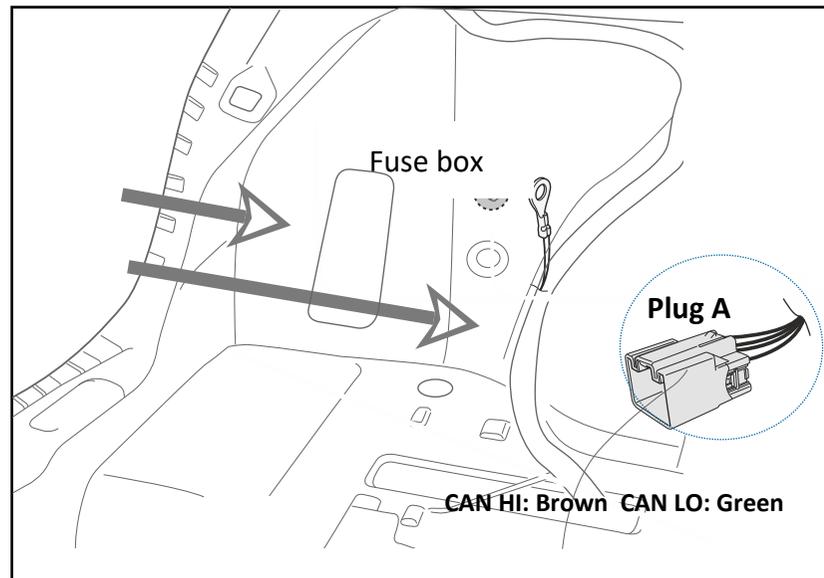
S-Max



Galaxy

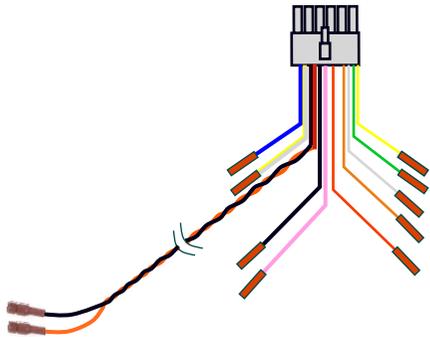
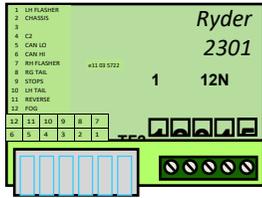


The CANbus plug, **A**, is near the rear pillar in the Mondeo and close to the wheel arch in the Galaxy & S-Max
The fuse box is here, to the rear of the wheel arch



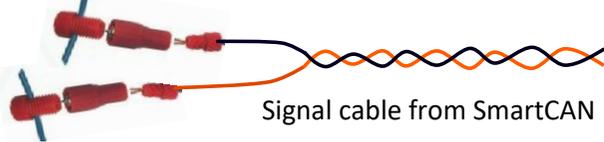
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Power, Caravan Auxiliary and CAN Hi/LO Detailed Connections

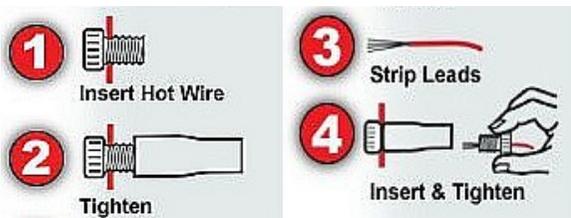


Use Posi-Taps to make the connections to CAN HI and CAN LO

PosiTape connectors



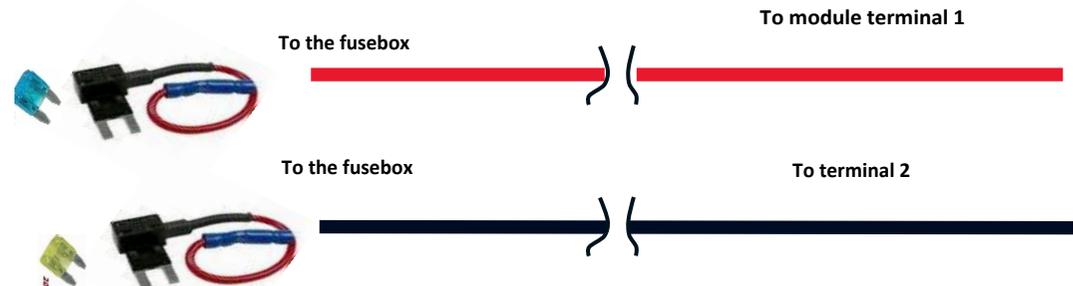
How Posi-Taps connect.



To supply only the 12N, use the orange cable, one PowerTap and 15 amp fuse. Connect the PowerTap to one end of the orange cable and connect the other end directly to Terminal 1 of the CANbus module.



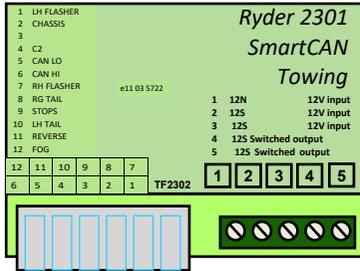
To supply both the 12N and 12S, use the orange cable, one PowerTap and 15 amp fuse, and the heavier, black cable the other PowerTap and the 20 amp fuse. Connect the PowerTap to one end of each cable and connect the other ends directly to Terminals 1 (orange) and Terminal 2 (black) of the CANbus module. Select suitable fuse positions in the fusebox to insert the PowerTaps.



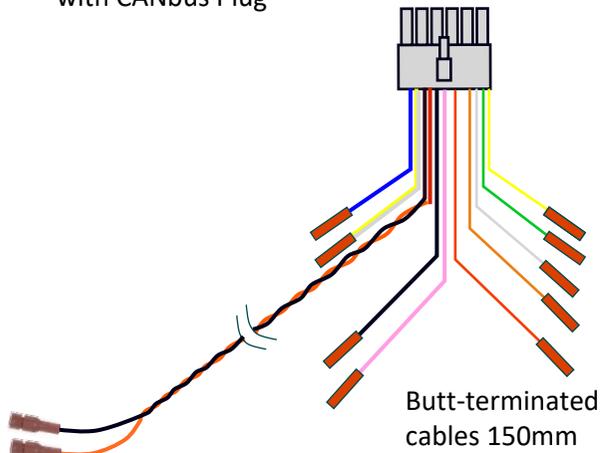
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Kit Components

TF2301
SmartCAN
module



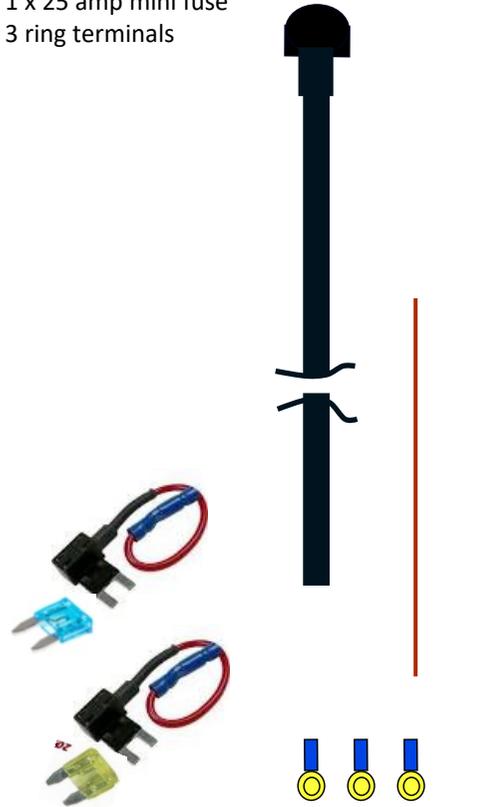
SmartCAN loom
with CANbus Plug



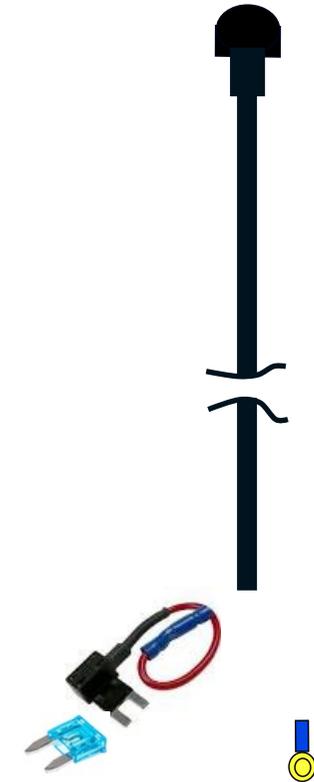
300mm twisted pair
with
Posi-Taps

Butt-terminated
cables 150mm

- 13-pin socket assembly, 2 metres
- Orange, power feed cable 1000 mm
- 1 x 15 amp mini fuse
- 1 Black Aux power cable, 1000 mm
- 2 PowerTap Mini
- 1 x 25 amp mini fuse
- 3 ring terminals



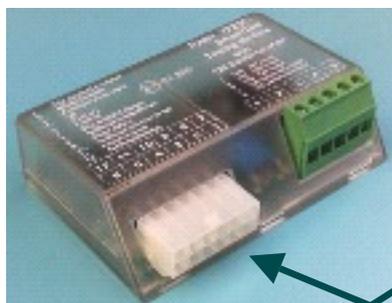
- 7-pin socket assembly, 2 metres
- Orange power feed cable 1000 mm
- 1 PowerTap Mini
- 15 amp mini fuse
- 1 ring terminal



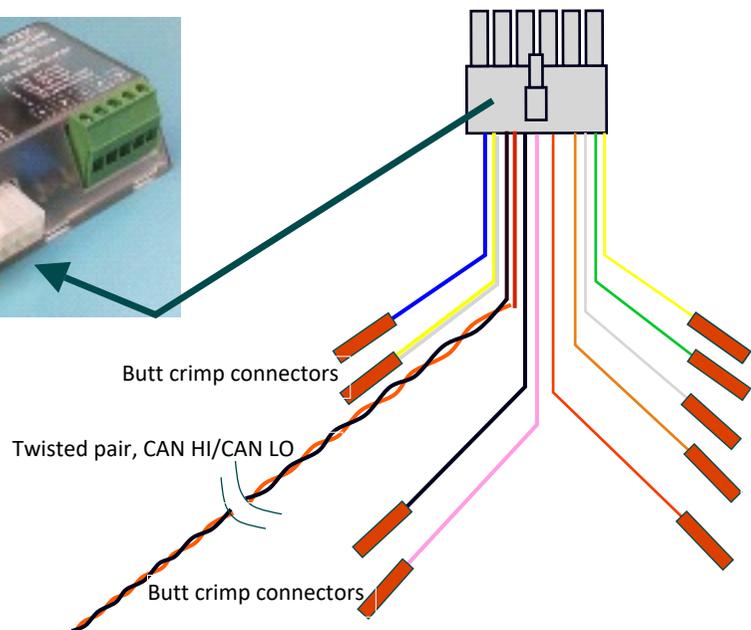
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CANbus Connections

TF2301 CANbus module



12-pin plug and loom

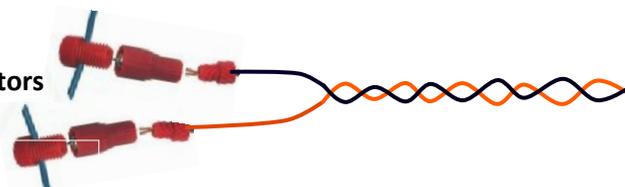


Module loom detail

1	LH FLASHER	YELLOW	Socket yellow 1
2	CHASSIS	WHITE	Ring terminal to chassis
3			
4	C2	PINK	Buzzer
5	CAN LO	BLACK	Twisted pair to CAN
6	CAN HI	RED	
7	RH FLASHER	GREEN	Socket green 4
8	RH TAIL	BROWN	Socket brown 5
9	STOPS	RED	Socket red 6
10	LH TAIL	BLACK	Socket black 7
11	REVERSE	YELLOW/WHITE	13-pin 8 or 12S 1
12	FOG	BLUE	Socket Blue 2

Connections to CAN HI and CAN LO

PosiTap connectors



CAN HI: Brown CAN LO: Green
Or
At OBDII, Pin 3 (HI) and Pin 11 (LO)

Socket assemblies

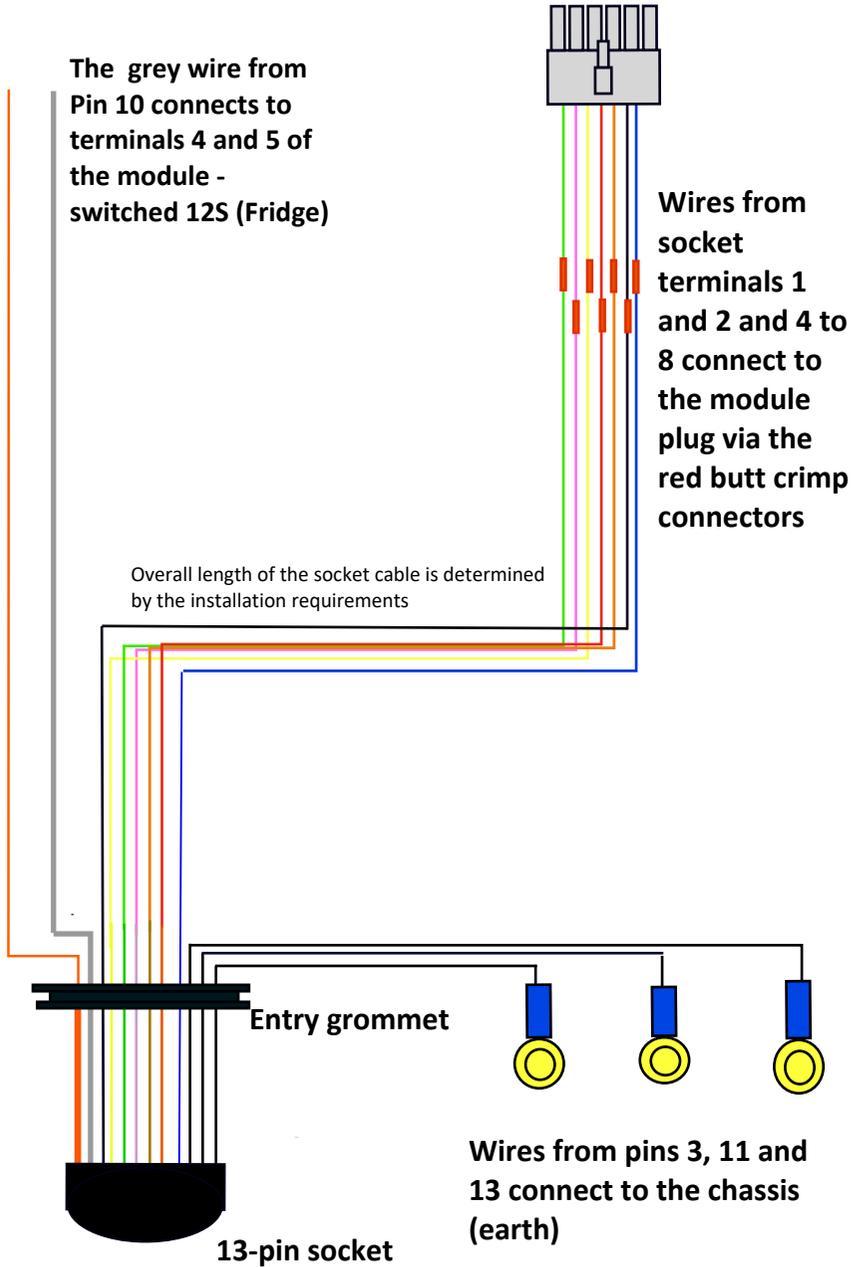
13-pin socket

The orange wire from Pin 9 connects to terminal 3 of the module - unswitched 12S (Interior lights/battery charging)

The grey wire from Pin 10 connects to terminals 4 and 5 of the module - switched 12S (Fridge)

Wires from socket terminals 1 and 2 and 4 to 8 connect to the module plug via the red butt crimp connectors

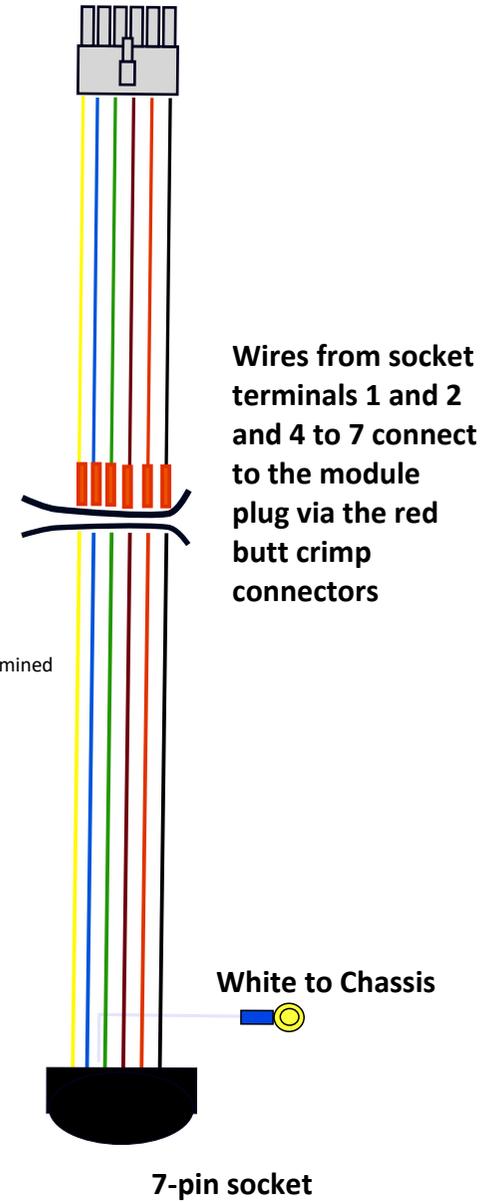
Overall length of the socket cable is determined by the installation requirements



7-pin socket

Wires from socket terminals 1 and 2 and 4 to 7 connect to the module plug via the red butt crimp connectors

Overall length of the socket cable is determined by the installation requirements



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Testing and Coding

With the engine both running and at rest, test all functions

Recoding adds C2 on dash; PDC; FCO

or use pink (0V) wire from module for C2

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Quality – Service – Innovation

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