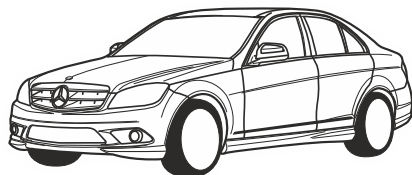


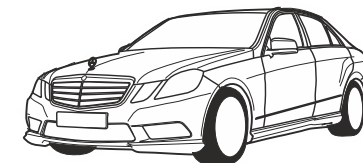


Ryder Towing Equipment Ltd

Vehicle-Specific Towing Electrical Kits TF2352MERC



Mercedes Benz C Class 2000>2007 / 2007>2014 (203,204)



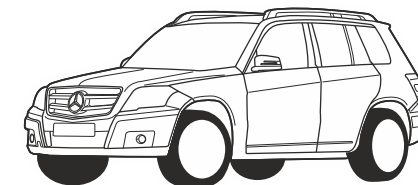
Mercedes Benz E Class 2002>2009 / 2009>2016 (211,212)

Mercedes Benz GLK 2002>2009 (209)

Caravan Auxiliary (12S) function is built in

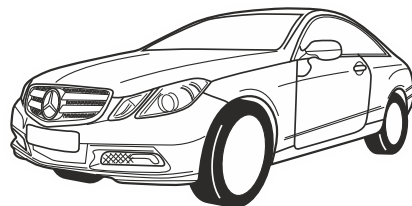
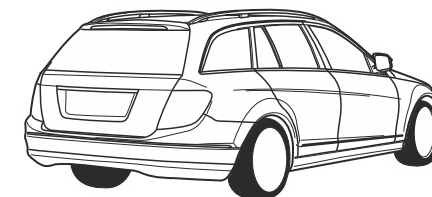
Installation is simple and quick - no need to “take the vehicle apart”.

High-quality connections throughout are easy and uncomplicated



Contents

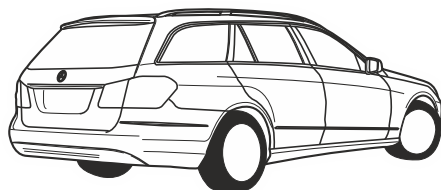
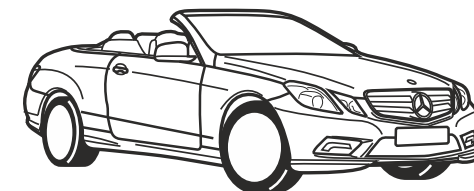
Pages 2,3,4,5	Cable routing, CAN & power connections
Page 6	Detail of power and caravan auxiliary connections
Page 7	Kit components
Page 8	CANbus connections
Page 9	Socket assemblies
Page 10	Testing and coding



Fully compatible with vehicle management systems to activate all vehicle safety features
Type approved and built to OEM standards
Instructions are easy to follow

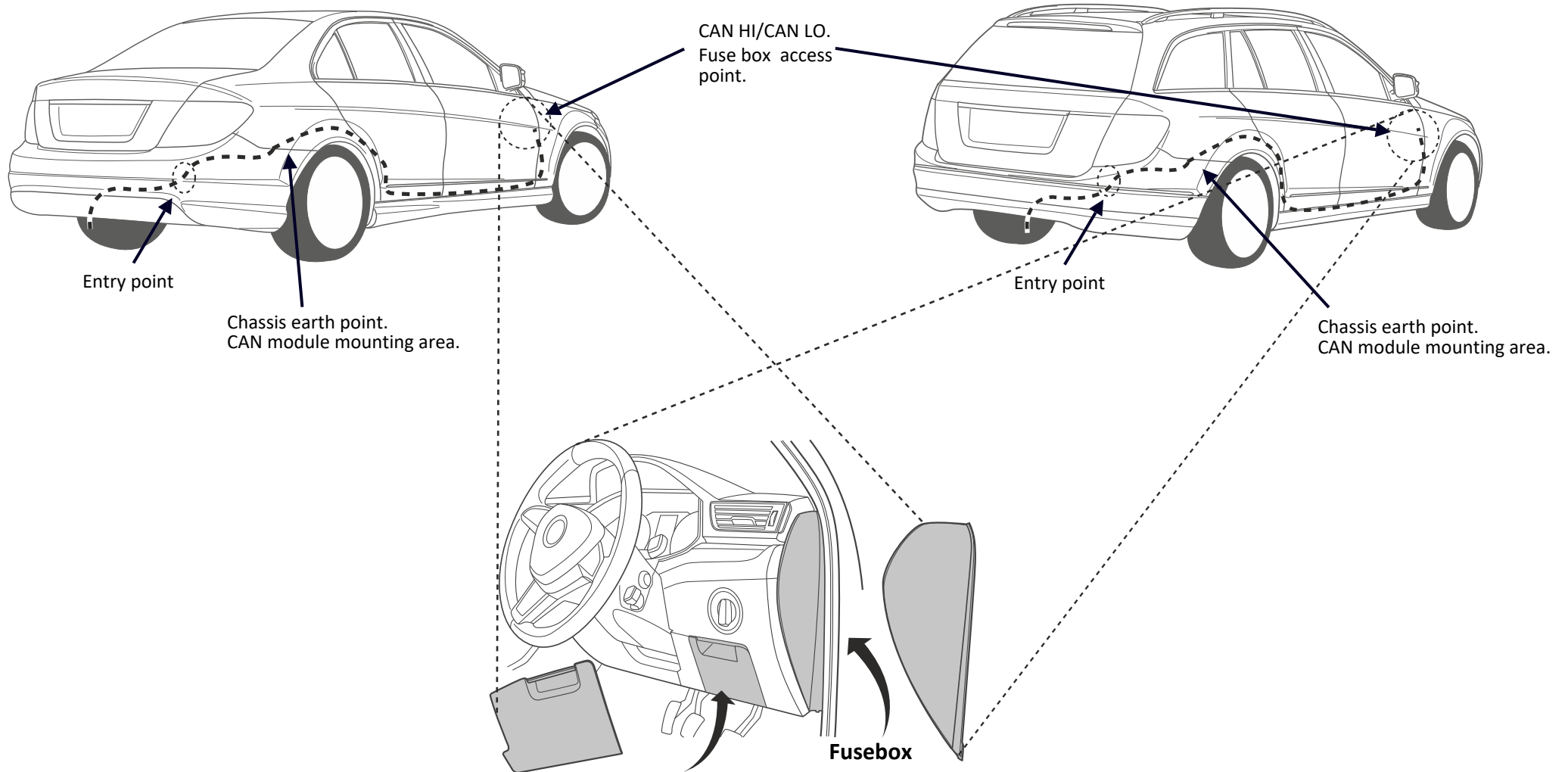
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Cable routing, CAN & power connections for Mercedes C Class Limo and Estate (203, 204)

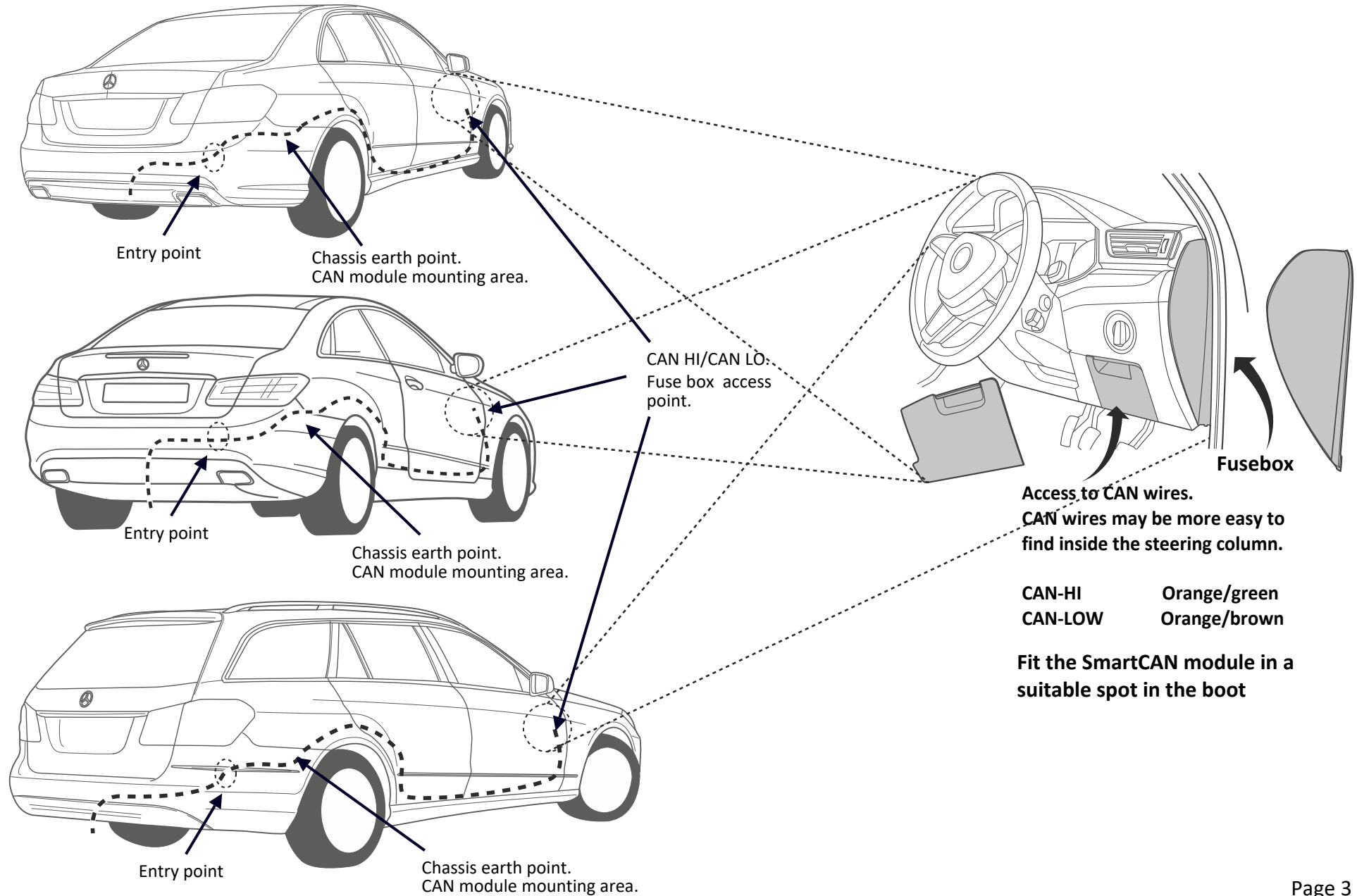


Access to CAN wires.
CAN wires may be more easy to find inside the steering column.

CAN-HI Orange/green
CAN-LOW Orange/brown

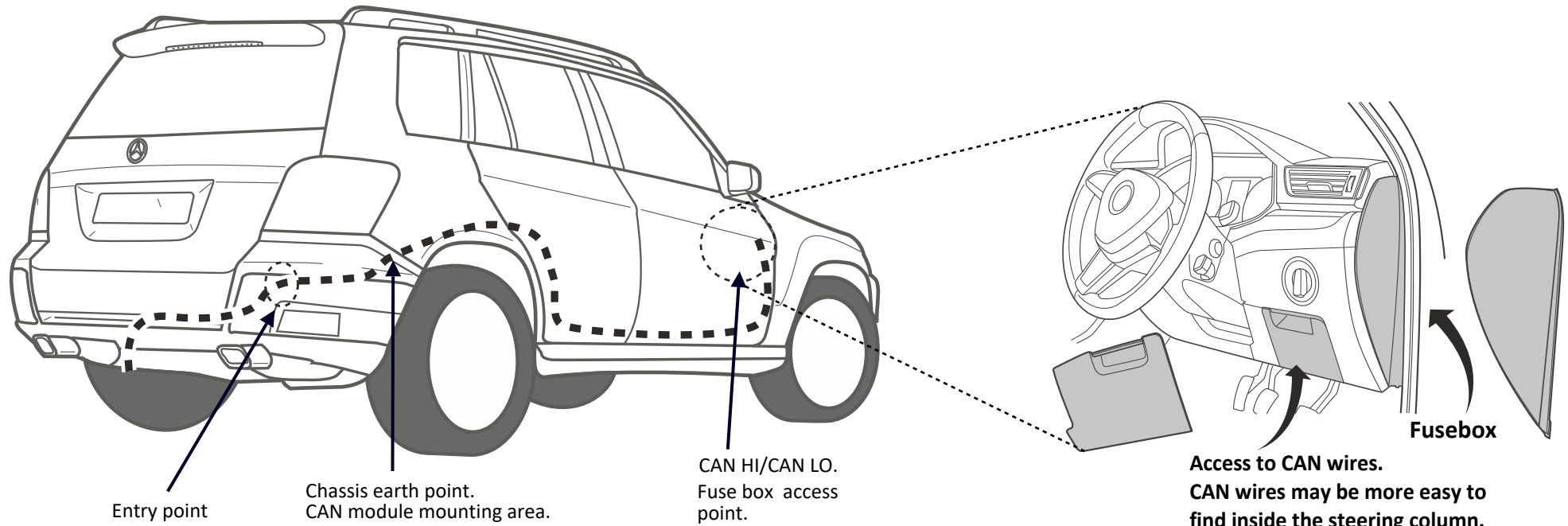
Fit the SmartCAN module in a suitable spot in the boot

Cable routing, CAN & power connections for Mercedes E Class Limo, Coupe and Estate (211, 212)



TF2352MERC

Cable routing, CAN & power connections for Mercedes GLK (209)



Access to CAN wires.
CAN wires may be more easy to find inside the steering column.

CAN-HI Orange/green
CAN-LOW Orange/brown

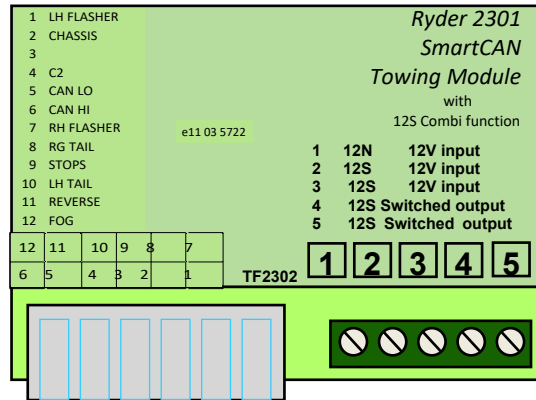
Fit the SmartCAN module in a suitable spot in the boot

TF2352MERC

Power and Caravan Auxiliary Detailed Connections

Module loom detail

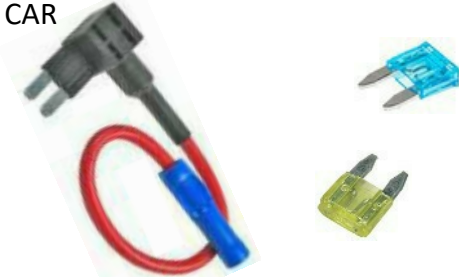
1	LH FLASHER	YELLOW	Socket yellow 1
2	CHASSIS	WHITE	Ring terminal to chassis
3			
4	C2	PINK	Buzzer
5	CAN LO	BLACK	Twisted pair to CAN
6	CAN HI	RED	
7	RH FLASHER	GREEN	Socket green 4
8	RH TAIL	BROWN	Socket brown 5
9	STOPS	RED	Socket red 6
10	LH TAIL	BLACK	Socket black 7
11	REVERSE	YELLOW/WHITE	13-pin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



- 1 12N 12V input The fused input for the road lights (15 amps)
- 2 12S 12V input One of two connected inputs for the caravan auxiliary function
- 3 12S 12V input Second of two connected inputs for the caravan auxiliary function. Use this for the unswitched caravan output
- 4 12S Switched Output Two switched outputs for the caravan fridge.
- 5 12S Switched output Having two outputs reduces voltage drop

The caravan auxiliary supply is controlled by the CAN system, using the engine revs. This means its function is not impaired if the vehicle has "Smart" charging.

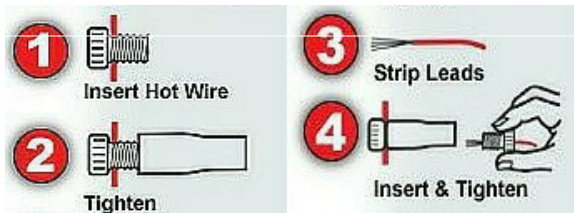
USE ONE OR TWO POWER TAPS TO TAKE POWER FROM THE FUSEBOX IN THE BOOT OF THE CAR



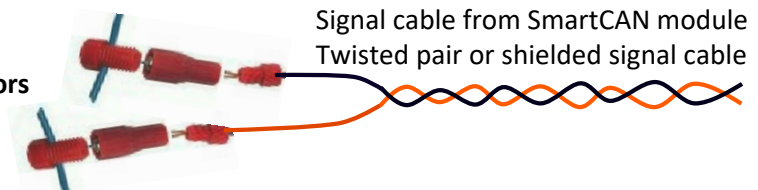
USE ONE POWER TAP FOR A (12N) INSTALLATION (7 OR 13-PIN)
 USE TWO FOR A DOUBLE (12N+12S) INSTALLATION (TWIN 7 OR 13-PIN)
 FUSE THE 12N CONNECTION 15 AMPS

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

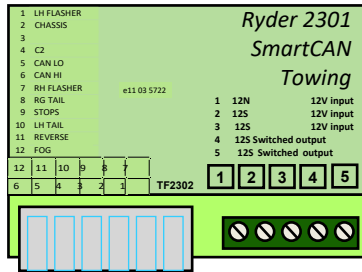
How Posi-Taps connect.



PosiTap connectors



TF2301
SmartCAN
module



TF2352MERC Kit Components

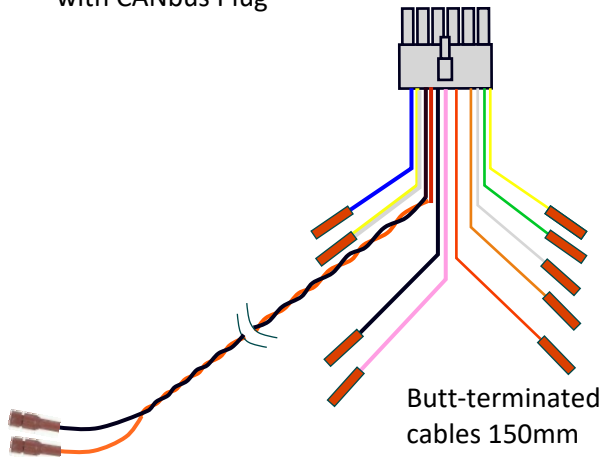
13-pin kit

- 1 x 13-pin socket assembly, 2 metres
- 1 x Mini buzzer
- 1 x 15 amp mini fuse
- 1 x Twin 35s Aux power cable, 5m
- 2 x PowerTap Mini
- 1 x 20 amp mini fuse
- 3 x ring terminals

7-pin kit

- 1 x 7-pin socket assembly, 2 metres
- 1 x Mini buzzer
- 1 x Black single 35s Aux power cable 5m
- 1 x PowerTap Mini
- 1 x 15 amp mini fuse
- 1 ring terminal

SmartCAN loom
with CANbus Plug



Butt-terminated
cables 150mm

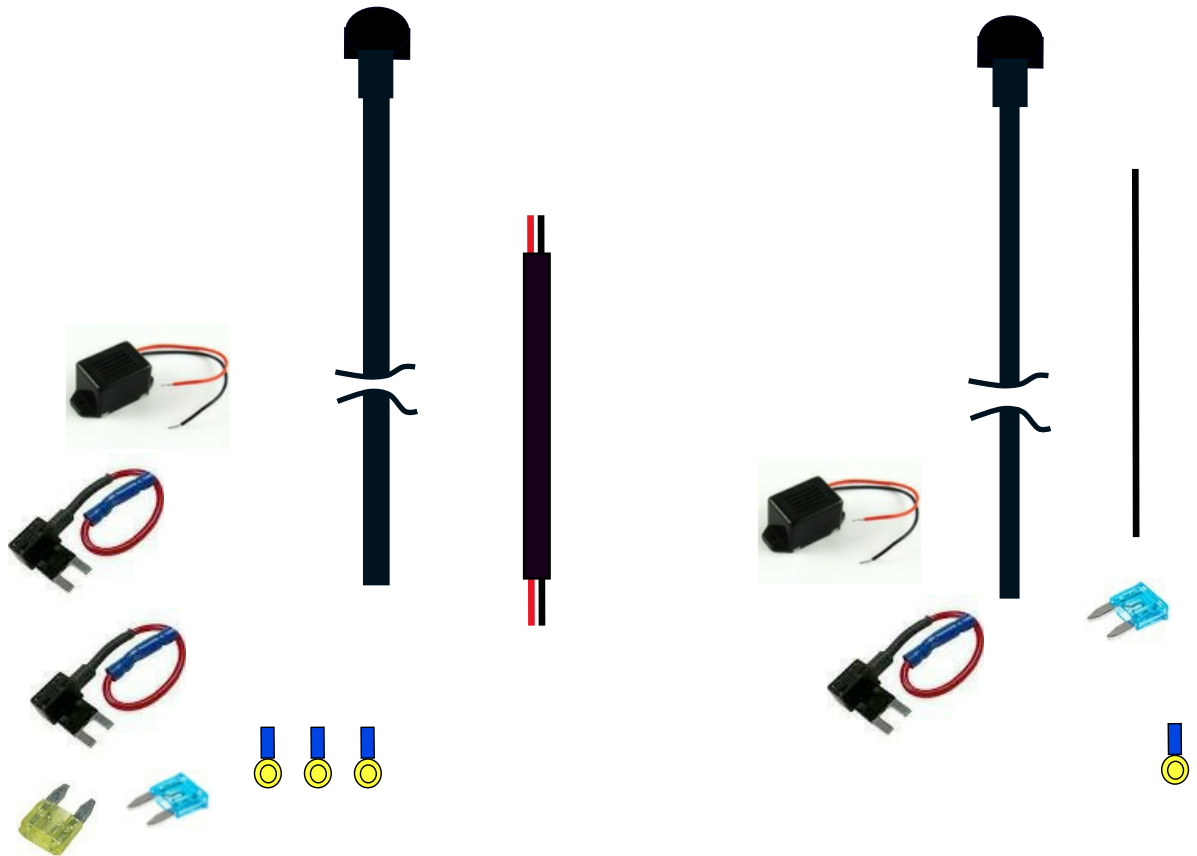
5m twisted pair with
red Posi-Taps

Power and CAN Cables

12N 5 metres 1mm² single cable

12S 5 metres 2.5mm² twin cable

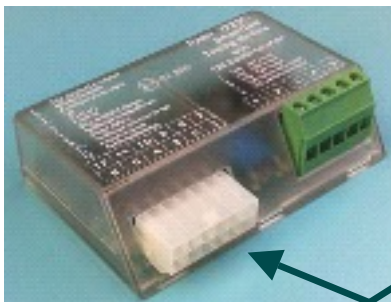
CAN 5 metres shielded signal
cable



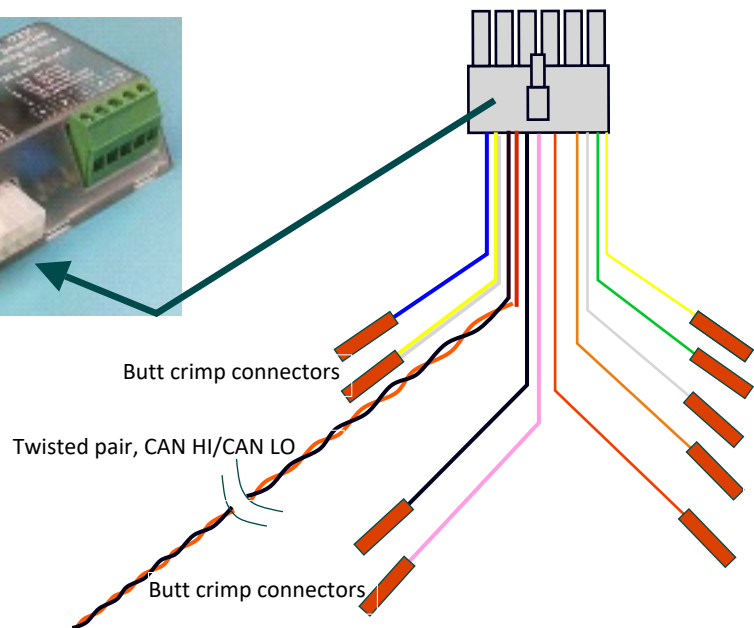
TF2352MERC

CANbus Connections

TF2301 CANbus module



12-pin plug and loom

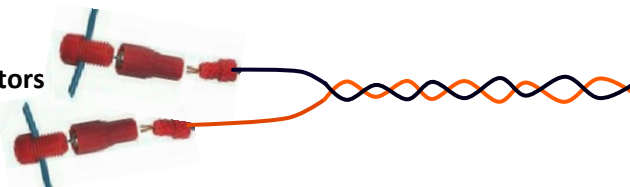


Module loom detail

1	LH FLASHER	YELLOW	Socket yellow 1
2	CHASSIS	WHITE	Ring terminal to chassis
3			
4	C2	PINK	Buzzer
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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 and CAN LO: See model specific instructions for CANbus colours.
 Or
 At OBDII, Pin 3 (HI) and Pin 11 (LO) (Dependent on model).

Socket assemblies

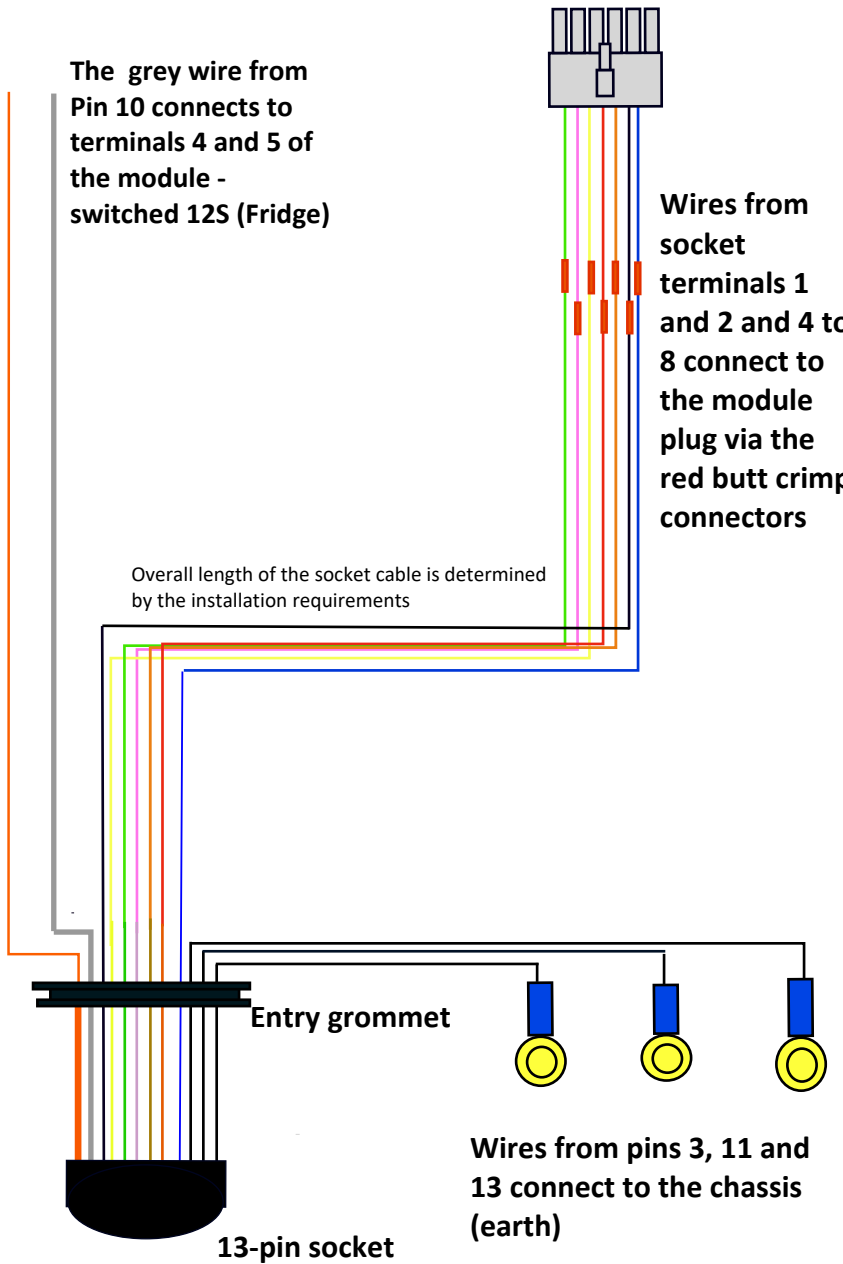
13-pin socket

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

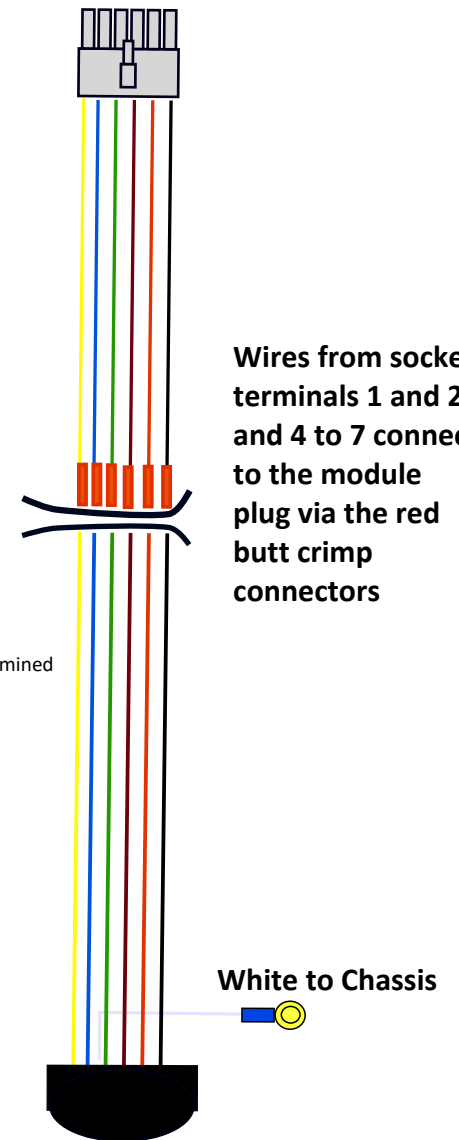


13-pin socket

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



7-pin socket

TF2352MERC

Testing and Coding

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

Recoding adds C2 on dash; PDC; FCO

or use pink wire from module and a buzzer for C2

(Coding is only required if CAN based C2, Bulb failure monitoring and Trailer present functions are needed.)

(TF2301 SmartCAN unit will provide basic trailer light output, and switched power output without coding)

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