Ryder Towing Equipment Ltd
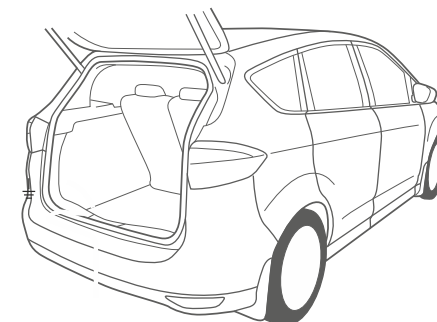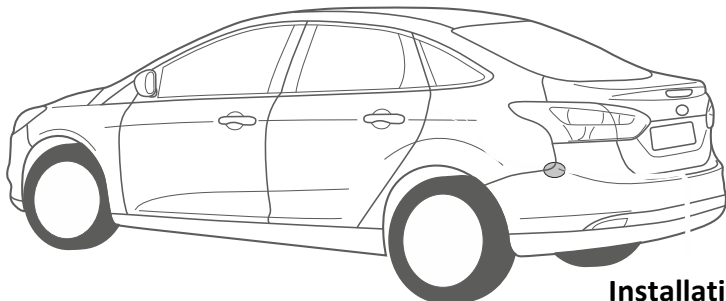## CANM8 Vehicle-Specific Towing Electrical Kits

TF2351FORD2

Ford Focus Saloon 2011-

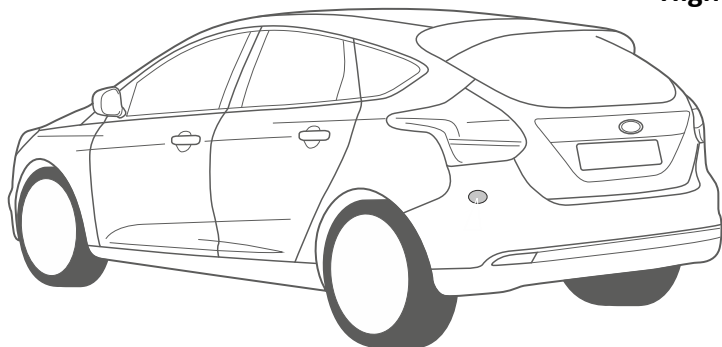**Ford Focus Hatchback 2011-**

Ford C-Max   2010-

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

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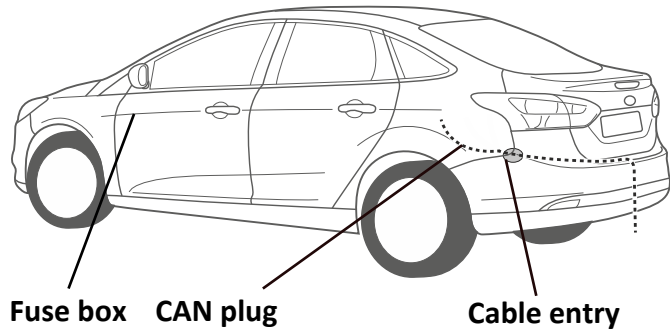**Instructions are easy to follow**

Ryder Towing

Quality – Service – Innovation

TF2351FORD2

Cable routing, CAN & power connections

Focus Saloon

Focus C-Max

Cable entry

Fuse box   **CAN plug**   **Cable entry**

CAN plug

Focus Hatchback

Fuse box   **CAN plug**   **Cable entry**

The CANbus plug, **A**, is on the rear of the wheel arch.

Plug A
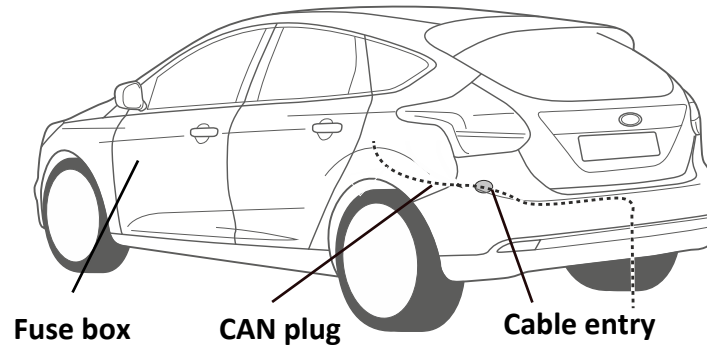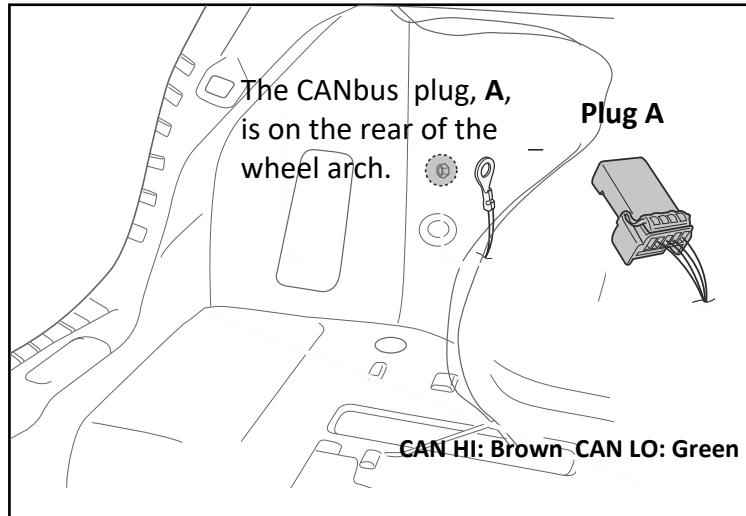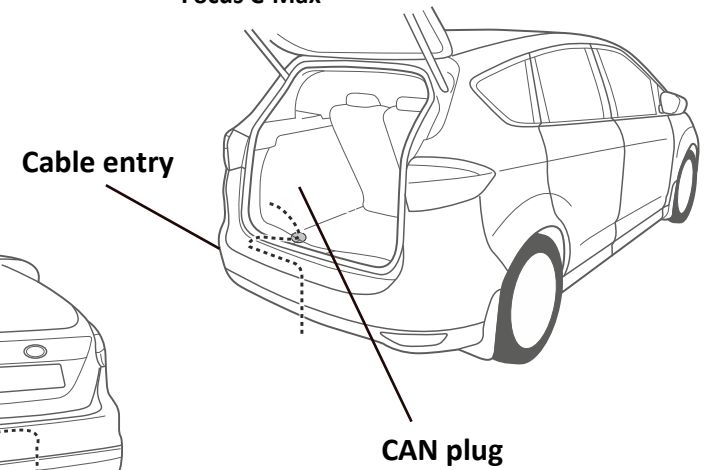
The fusebox drops down, under the glove box

CAN HI: Brown   CAN LO: Green

Power, Caravan Auxiliary and CAN Hi/LO Detailed Connections

1 LH FLASHER
2 CHASSIS
3
4 C2
5 CAN LO
6 CAN HI
7 RH FLASHER
8 RG TAIL
9 STOPS
10 LH TAIL
11 REVERSE
12 FOG

Ryder
2301
e11 03 5722

1   12N
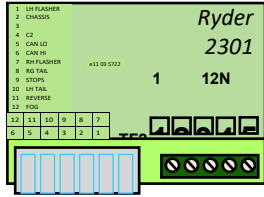
Use Posi-Taps to make the connections to CAN HI and CAN LO

PosiTap connectors

Signal cable from SmartCAN

How Posi-Taps connect.

1 Insert Hot Wire
2 Tighten
3 Strip Leads
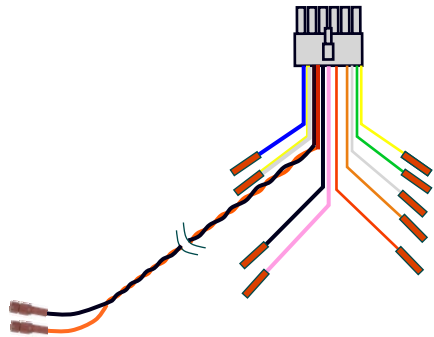4 Insert & Tighten

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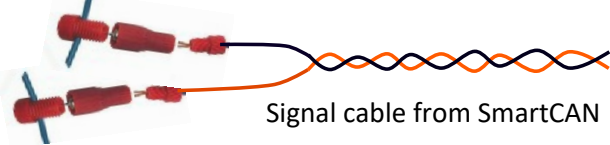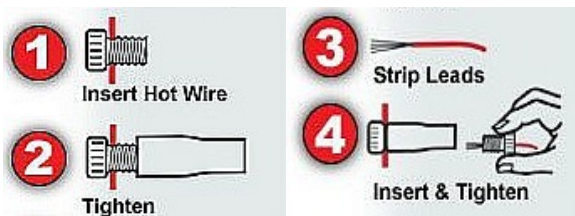
To supply only the 12N, use the orange cable, a PowerTap Mini and a 15 amp fuse. Take power directly from the fusebox under the glove compartment. Select a suitable fuse position in the fusebox to insert the PowerTap. Protect this circuit with the 15 amp fuse provided.

PowerTap Mini   To the fusebox   **5 metre power cable for lamps**   To terminal 1

To supply both 12N and 12S, use both the orange cable and 15 amp fuse and the heavier, black power cable.
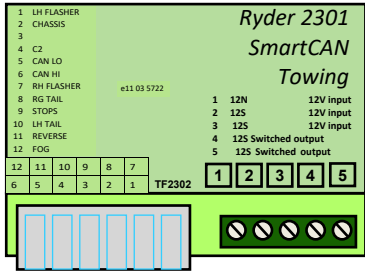
To supply the 12N, use the orange cable, a PowerTap Mini and a 15 amp fuse. Take power directly from the fusebox under the glove compartment. Select a suitable fuse position in the fusebox to insert the PowerTap. Protect this circuit with the 15 amp fuse provided.

PowerTap Mini   To the fusebox   **5 metre power cable for lamps**   To terminal 1

PowerTap Mini   To the fusebox   **5 metre power cable for 12S**   To terminal 2

Run the black power cable from the location of the CANbus module to the fusebox below the glove compartment.
Connect the PowerTap connector to the cable and connect the other end of the cable to Terminal 2 of the CANbus module
Select a suitable fuse position in the fusebox to insert the PowerTap. Protect this circuit with the 20 amp fuse provided.

TF2351FORD2

Kit Components

TF2301 SmartCAN module

1	LH FLASHER						
2	CHASSIS		*Ryder 2301*				
3							
4	C2		*SmartCAN*				
5	CAN LO						
6	CAN HI		*Towing*				
7	RH FLASHER	e11 03 5722					
8	RG TAIL			1	12N		12V input
9	STOPS			2	12S		12V input
10	LH TAIL			3	12S		12V input
11	REVERSE			4	12S Switched output		
12	FOG			5	12S Switched output		

12	11	10	9	8	7		1	2	3	4	5
6	5	4	3	2	1	TF2302					

SmartCAN loom with CANbus Plug

Butt-terminated cables 150mm
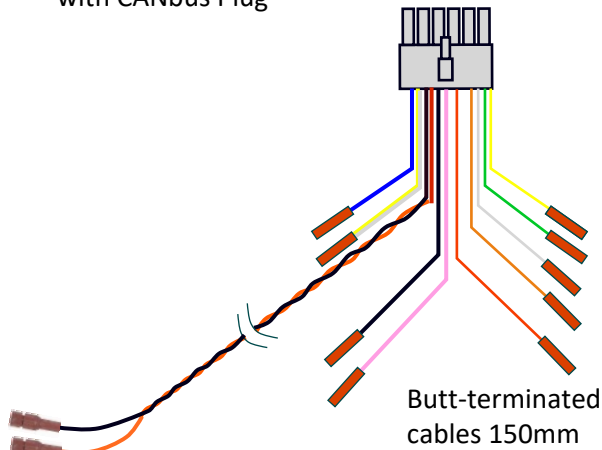
300mm twisted pair with Posi-Taps

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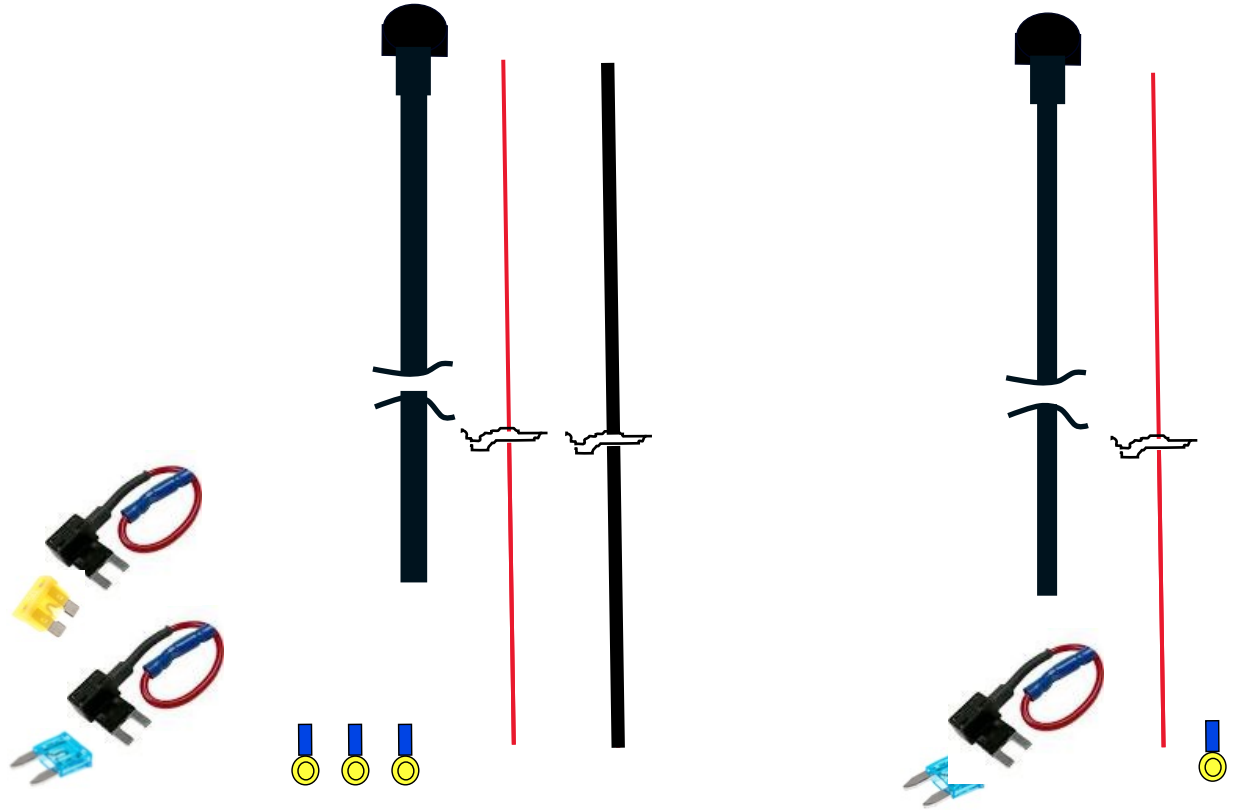
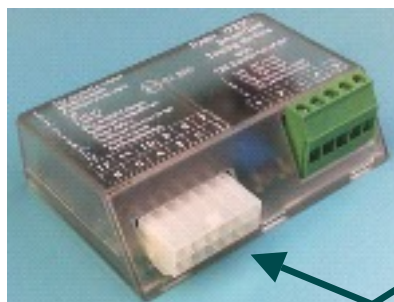7-pin socket assembly, 2 metres
Orange power feed cable 1000 mm
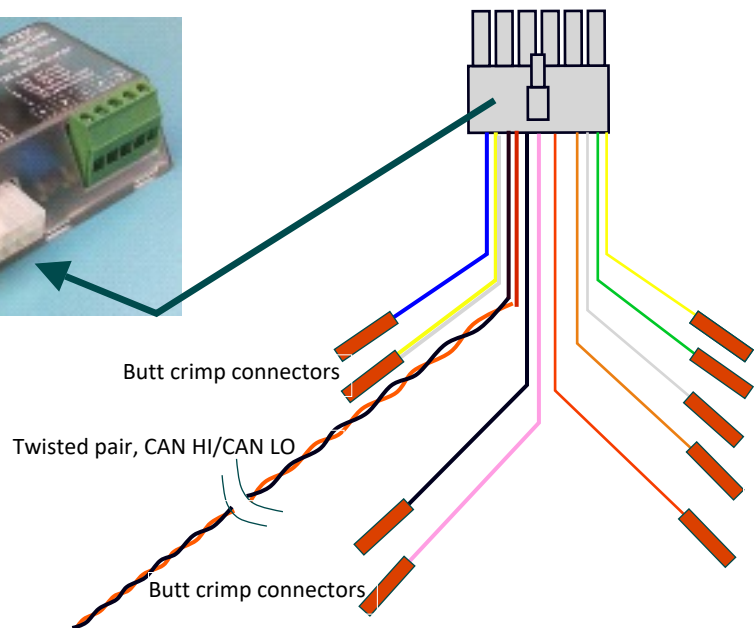I PowerTap Mini
15 amp mini fuse
1 ring terminal

TF2351FORD1

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

Butt crimp connectors

Twisted pair, CAN HI/CAN LO

Butt crimp connectors

Connections to CAN HI and CAN LO

PosiTap connectors
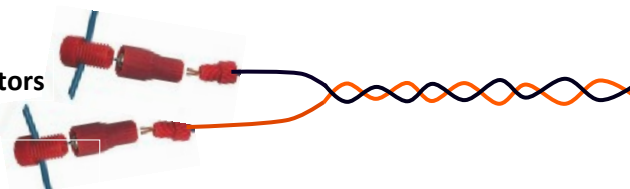
CAN HI: Brown   CAN LO: Green
Or
At OBDll, Pin 3 (HI) and Pin 11 (LO)

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

Entry grommet

13-pin socket

Wires from pins 3, 11 and 13 connect to the chassis (earth)
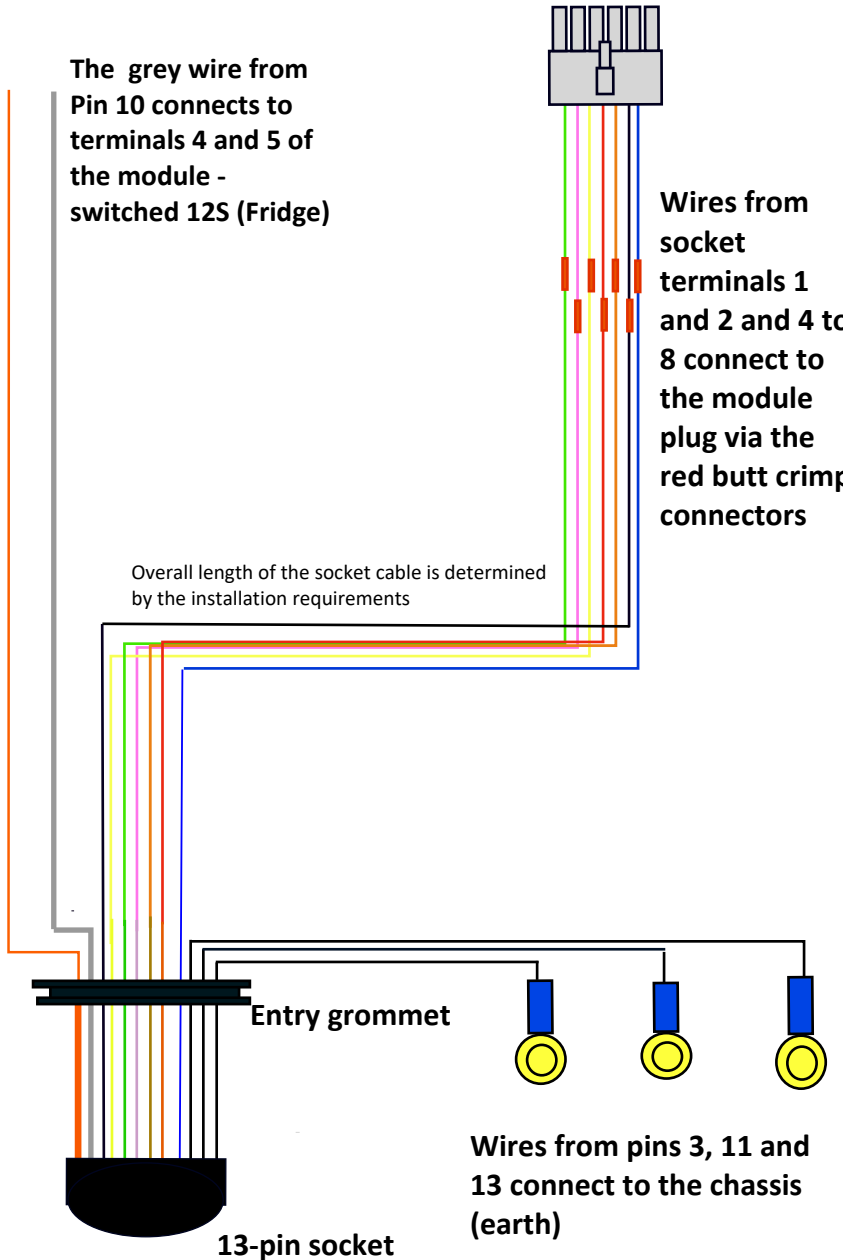
7-pin socket

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 requirements of the installation

White to Chassis

7-pin socket
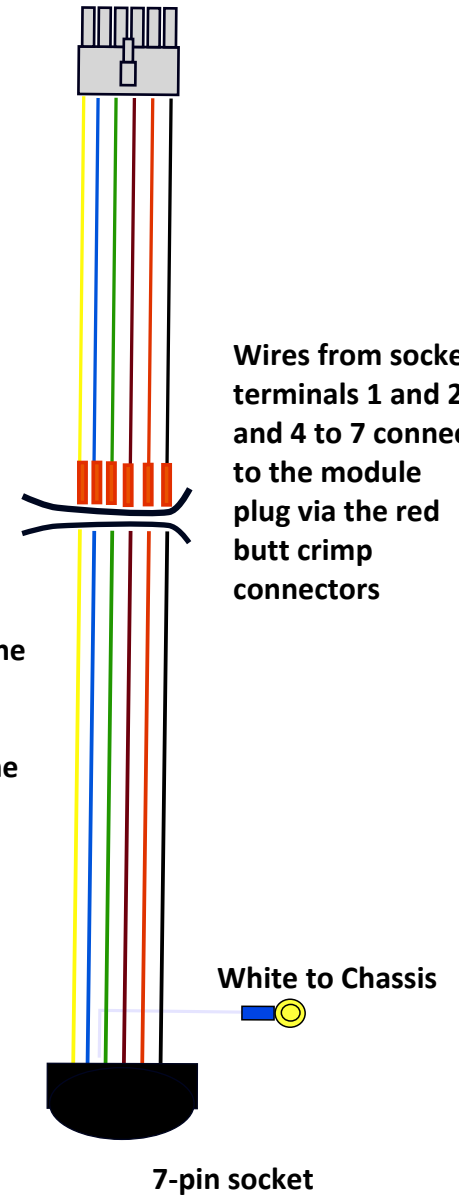
Testing and Coding

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

Recoding adds C2 on dash; PDC; FCO

or use pink wire from module for C2

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Spimin House, Beacon Road, Poulton-le-Fylde, Lancs, FY6 8JE 01253 881008 www.rydertowing.co.uk mail@rydertowing.co.uk