

POWERFLEET®

People Powered AloT

Version 1.0

FT2

Installation & Servicing Guide

Table of Contents

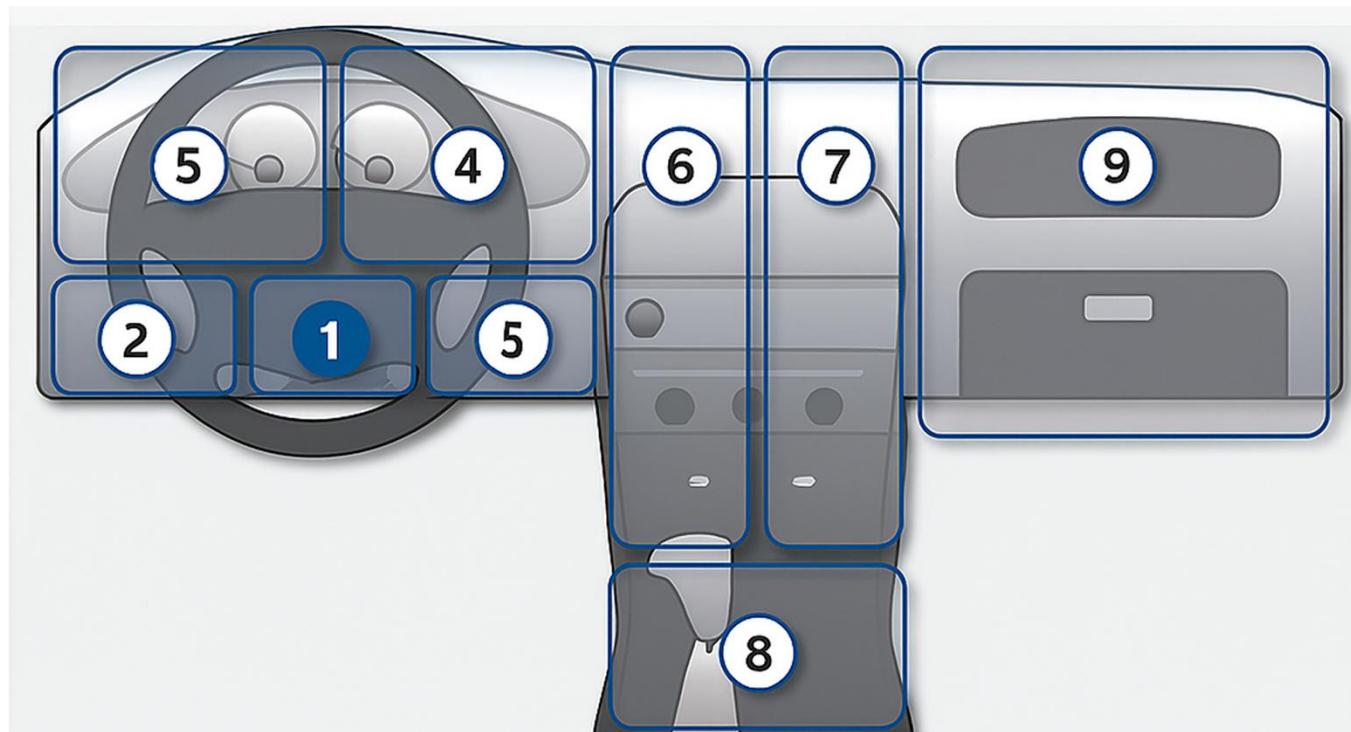
1	<i>Mounting your FT2 device</i>	3
2	<i>FT2 Molex Cable</i>	4
3	<i>Hardware Installation</i>	5
4	<i>FT2 Molex Cable</i>	6
5	<i>FT2 – Connector B (10-PIN) Cable Colour Table</i>	7
6	<i>FT2 – Connector A (18-PIN) cable colour table</i>	8
7	<i>FT2 - Connector A (18-PIN) cable colour table</i>	9

1 Mounting your FT2 device

- Ensure device is mounted in a location under your dash using tie straps. The mount should be snug, with no wiggle room, as this may incur false behavior events.
- For optimal GPS and Cellular performance, ensure your device is mounted horizontally so the logo is facing the sky.
- Common mounting locations are points 1, 2, 3. In some vehicles, a mounting location could be found in points 6, 7.
- Common External Antenna mount locations are points 5, 4, 6, 7, 9.



Note: Always connect Device to Diagnostic port while the ignition of the vehicle is OFF to ensure optimal functionality of the modem.



2 FT2 Molex Cable



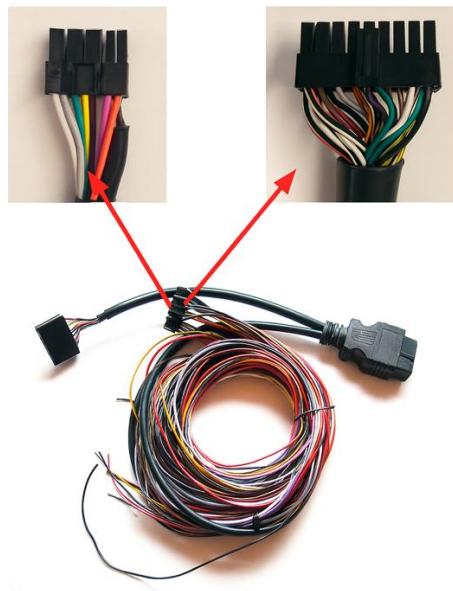
10 Pin Molex



18 Pin Molex

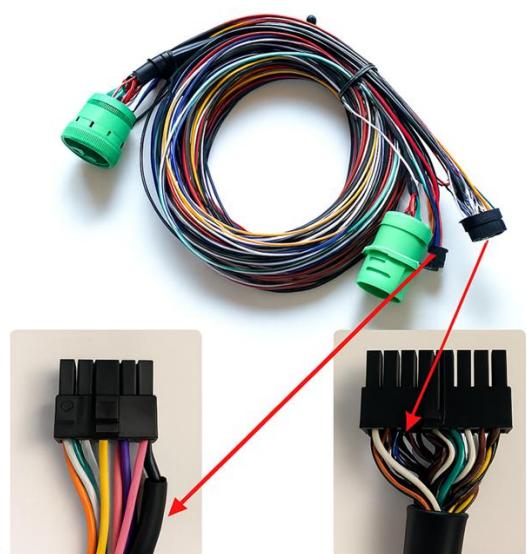


External Antenna (Optional)



FT2 Molex Cable

The FT2 OBD Y cable comes with IO's where you can install PTO's, Temperature Sensors, iButton, RFID etc. Cable also contains wires to hardwire your FT2 device via a three wire install, Power Ground & Ignition.



FT2 9 PIN Y Cable

The FT2 OBD Y cable comes with IO's where you can install PTO's, Temperature Sensors, iButton, RFID etc.

Cable also contains wires to hardwire your FT2 device via a three wire install, Power Ground & Ignition.

3 Hardware Installation



- Locate the Diagnostic port that is commonly found under steering wheel, driver's side.



- Remove Plastic panel by unscrewing bolts, screws or plastic clips giving visibility to wiring leading up to the diagnostic port of vehicle.
- Connect Y cable to existing Diagnostic port securing cables with zip ties and replace existing diagnostic fitting with appropriate fitting provided by Powerfleet.

4 FT2 Molex Cable



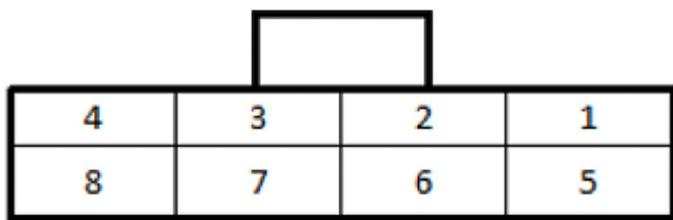
- In this example the device was mounted in the center console just in between driver's side dash and passenger side dash.



- A secure mount with zip ties is important, little to no wiggle room.

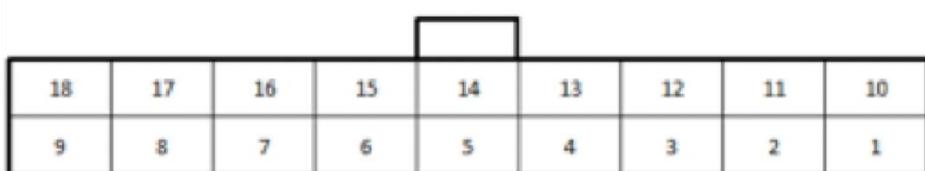
5 FT2 – Connector B (10-PIN) Cable Colour Table

PIN No.	Cable Definition	Colour
1	Ground	Black
2	12/24/48V Power In	Red
3	CANH (2.0B or FD) / ISO-15765 or J1939	Grey/Green
4	CANL (2.0B or FD) / ISO-15765 or J1939	Yellow/Grey
5	RS-232 #1 TxD	Orange
6	RS-232 #1 RxD	Pink
7	12V Out (2.5W)	Purple
8	Ignition (+)	White Yellow
9	Digital Input #2 (Programmable Bias)	White/Grey
10	Digital Input #3 (Programmable Bias)	White/Green



6 FT2 – Connector A (18-PIN) cable colour table

PIN No.	Cable Definition	Colour
1	Ground	Black
2	1-wire	Yellow
3	CANH (2.0B) / ISO-15765 or J1939	Orange
4	CANL (2.0B) / ISO-15765 or J1939	Purple
5	ADC#1 (48V)	Brown
6	RS-232 #2 TxD	Grey
7	RS-232 #2 RxD	Grey Brown
8	Ground	Black
9	ADC#2 (48V)	Red



7 FT2 – Connector A (18-PIN) cable colour table

PIN No.	Cable Definition	Colour
10	J1708+	Brown/Green
11	J1708-	Brown/Red
12	ISO-9141 K Line	Blue
13	ISO-9141 L Line	White
14	Digital Input #4 (Programmable Bias)	White/Blue
15	Digital Output #1 (close to ground)	Black/Brown
16	Digital Output #2 (close to ground)	Black/Blue
17	Digital Output #3 (close to ground)	Black/Orange
18	Digital Input #1 (close to ground)	White/Black

18	17	16	15	14	13	12	11	10
9	8	7	6	5	4	3	2	1

LED	Flash Count	Error	Action
Green	1	Sim Error	Check that sim is inserted correctly, reseat sim or replace with another sim.
Green	2	No Network	Check that sim card is inserted correctly, also check that you are in a reasonable coverage area. Check mount location of device and ensure there is no obstruction.
Green	3	Unable to register network	Verify if a renewal device or recent device\sim swap, confirm sim inside device and that a rate plan exists. Check with fulfillment to ensure Sim is active.
Green	4	Service Unreachable	Check for poor coverage location, check that line is Active.
Green	5	Service Activation Error	Please contact Technical Support @ 1-800-220-0779 .
Green	5	Service Sync failure	Check with fulfillment the sim is active with a rate plan. Power cycle unit by unplugging device and unplugging internal backup battery.
Blue	3	GPS Signal Weak	Check mount location of device, also check for poor coverage area
Red	4	Battery too low to transmit	Using a voltage meter, check constant power from Diagnostic port (this may require professional installer assistance)
Red	5	Error reading telematics data	Power cycle unit by unplugging device and internal backup battery. Leverage hardware support if problem persists.
Red	10	Other system error	Please contact Technical Support @ 1-800-220-0779 .