



VOLKSWAGEN CV MODELS METASYSTEM META TRAK INSTALLATION MANUAL



Commercial Vehicles

PART NUMBERS

1 YEAR CONTRACT - ZGB000054003
3 YEAR CONTRACT - ZGB000054004
6 MONTH DEALER DEMO - ZGB000054005
DEMO 1 YEAR UPGRADE PACK - ZGB00054006
DEMO 3 YEAR UPGRADE PACK - ZGB00054007
SPARE DRIVER ID TAG - ZGB00054008

KIT CONTENTS

1x Meta Trak ECU,
2x Driver ID tags (1x included with Demo),
1x Power Harness,
2x Cable Ties,
2x Blue Duraseal Connectors
1x Red Duraseal Connector,
1x Red 6.3m Ring Connector,
1x Adhesive Primer wipe,
1x Micro Fuse link,
1x 2 Amp Micro fuse,

TECHNICAL HELPLINE

Tel: 020 3332 0128 Email: technical@metatruk.co.uk

PRE-INSTALLATION CHECKS

Carry out a functional check and test of the vehicle systems prior to starting the installation, in particular, the area to be worked on during the course of the installation.

INSTALLATION NOTES

Ensure prior to installation that the vehicle is in neutral and the vehicle battery is disconnected. Do not re-connect battery with the vehicle in gear.

Verify connection points with an intrinsically safe, VW Group approved multi-meter.

Where indicated, ensure all electrical connections are made using the approved VW Group methodology

Re-apply protective tape to any section of the vehicle harness exposed during installation.

Always secure wiring harnesses away from any moving parts

Treat any drilled holes with an appropriate anti-corrosion paint/spray.

VOLKSWAGEN COMMERCIAL VEHICLES CONNECTION METHODOLOGY

Refer to ELSA prior to making any electrical connections; all electrical connections must be carried out using the Duraseal methodology (see below)

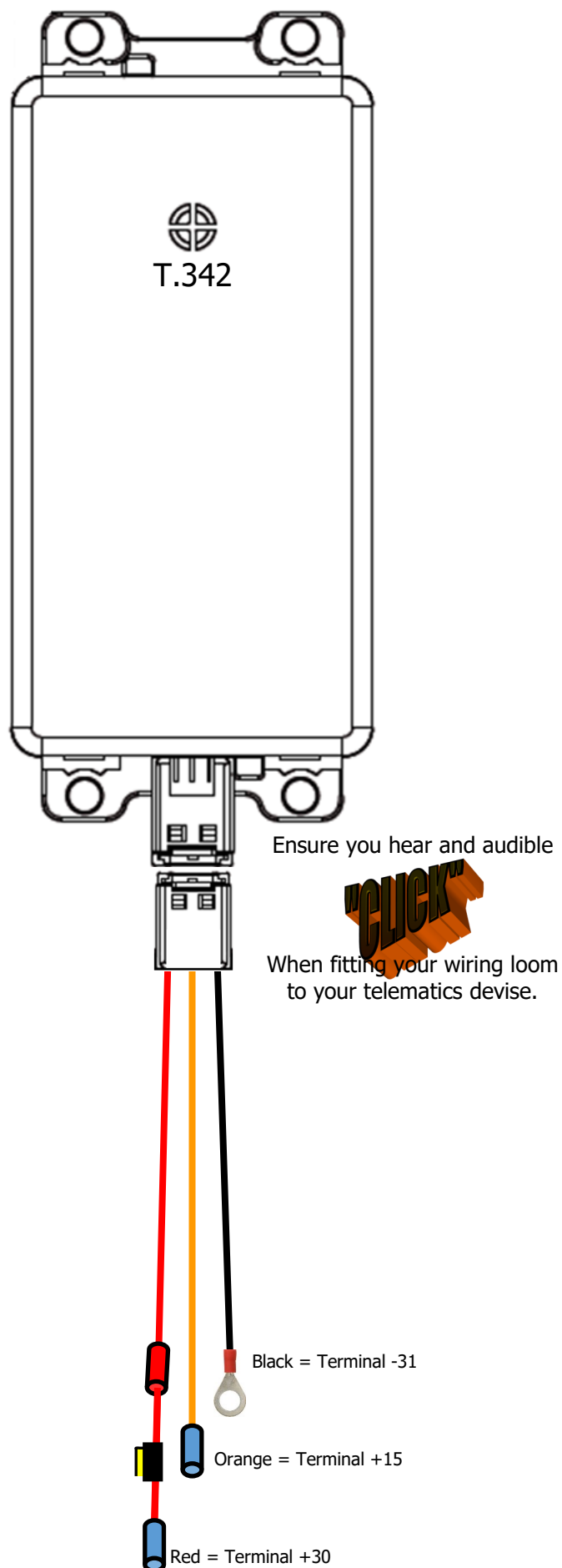
- Place the heat-shrink tubing over the terminal and allow 5mm overlap, heat-seal using tool 1978/14 and shrink element 1978/15.
- Repeat the operation to complete double insulation process.
- Cut the wires intended for connection and strip back the insulation by 10mm.
- Twist the exposed cable, (where two wires enter the Duraseal Connector at the same end twist the cable together and trim surplus to leave 6mm of exposed cable.
- Place a Duraseal connector in an approved crimping tool and insert the intended wire(s) into one end, apply pressure to the crimps and maintain the pressure for approximately 5 seconds after the jaws have closed.
- Repeat the process at the opposite end of the Duraseal Connector.
- Using the Hot Air Blower 1978/14 and Shrink Element 1978/15, heat the Duraseal Connector until the sleeve seals at both ends of the connector.



T.342 INSTALL DIAGRAM

The control unit can be mounted in any position, all aerals and sensors are built into this one unit.

When Fitting please refer to the diagram opposite.





CREATING A NEW CUSTOMER CONTRACT (SALES)

The screenshot shows the Meta Trak System interface. At the top, there is a navigation bar with links: Contract Search, Reports, Sales, Administration, and Accident search. Below this, a 'Search' dropdown menu is open, showing options: Contract Search, New Contract, Contracts List, Dealer Device Replacement, Accounts, and Contract Operations. The 'New Contract' option is highlighted. The main form area contains fields for Account, Mobile Number, Is blocked (dropdown), Dealer Group (dropdown), Installation Date, Contract date, Disable Date, Device details (Rate, PartNo, IMEI No, Status, Name, Device status, Fault, Script, Script version), and buttons for Search and Clear.

1. STARTING A NEW CONTRACT

Log into the Meta Trak website <https://adm.metatrak.it/> using the detail supplied to you.

Click on "Contract Search" on the top left of the screen and then scroll down the pop up menu and select "New Contract"

The screenshot shows the 'CUSTOMER INFORMATION' form. It is divided into several sections: Account (Account, Dealer), Customer info (First Name, Surname, VAT Number, Company Name, Mobile Number, E-mail, Country, Address Line 1, Town, Post Code), Contact person (First Name, Surname, Security Question and Answer), Contact Info (Mobile Number, E-mail), and Additional contacts (Second phone number, Third phone number). There is a 'Next' button at the bottom.

2. CREATING A NEW CONTRACT

Complete each box as required

(Account number is only required if the customer is adding this to an existing Meta Trak account)

Ensure that the Customer info mobile number input is the mobile phone the customer wishes to use the Meta Trak app on. Ensure that when inputting the mobile number you replace the first digit "0" with 44.

Security Question and Answer field information should be input as below, The question can be anything the customer wants it to be.

Q = (I.E customers First car)
A = (VW Polo)

Once all of the data has been input click "Next" located in the bottom corner.

The screenshot shows the 'VEHICLE INFORMATION' form. It contains fields for Vehicle Type (dropdown), Vehicle Make (dropdown), Vehicle Model (dropdown), Vehicle Registration (text), VIN (text), and Vehicle Colour (dropdown). There are 'Back' and 'Next' buttons at the bottom.

3. INPUTTING VEHICLE SPECIFICATION

Input the vehicle data,
Vehicle Type: Car
Vehicle Make: Volkswagen
Vehicle Model: (Select from drop down menu)
Vehicle Registration: (Input the specific Reg)
Vin: (Input the specific Chassis number)
Vehicle Colour: (Input the specific bike colour)

Once all of the data has been input click "Next" located in the bottom corner.



▼ Device

IMEI:

OBU serial number:



4. ALLOCATE THE DEVICE

Input the unit IMEI and Serial numbers into the designated boxes.

Once all of the data has been input click "Next" located in the bottom corner.

The next page is a contract summary, ensure all the data you have input is correct and then click "Next" located in the bottom corner.

Finally, click next again.

Contract setup is now complete, make a record of the customer contract number and exit the screen, the device is now ready for installation by your technician who can then activate the product once the installation is complete.

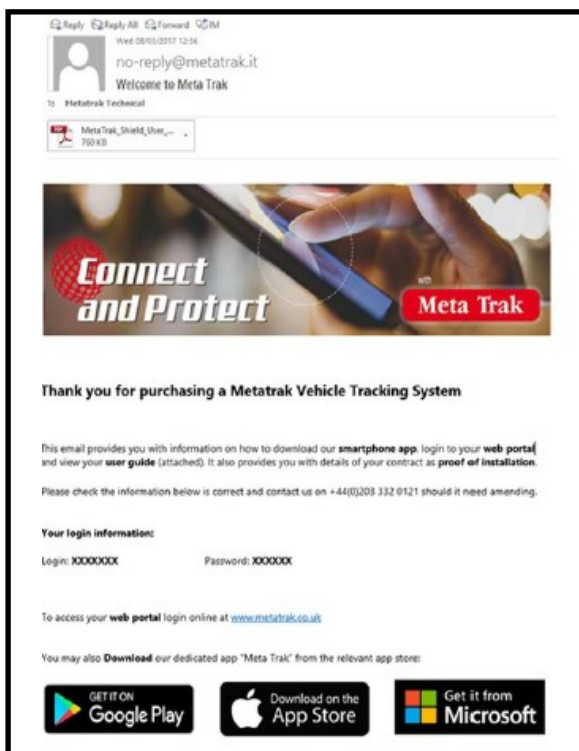
Or if you wish to carry out the initialisation process now continue to the next step below.

DEVICE INITIALISATION / PRINT CONTRACT

ACTIVATION OPTIONS

- ▼ 1. To Initialise the device **NOW** - Send 'INITIALISATION' check values in 'System Values', verify Status = ACTIVATED, send 'Get Position', check position.
2. To Initialise the device from here **LATER** - **DO NOT CLICK 'FINISH'**! When ready to initialise the device select the contract from the contract list, then proceed as per point 1.
3. To Initialise the device using MT Installer click Finish.

Please follow on screen instructions, paying particular attention to "click finish" once happy with all information entered. Located at the bottom of the screen on the left. Next screen to appear will be a chance to view and print contract. However, a copy of the contract will be emailed to the email address the account has been set up in.





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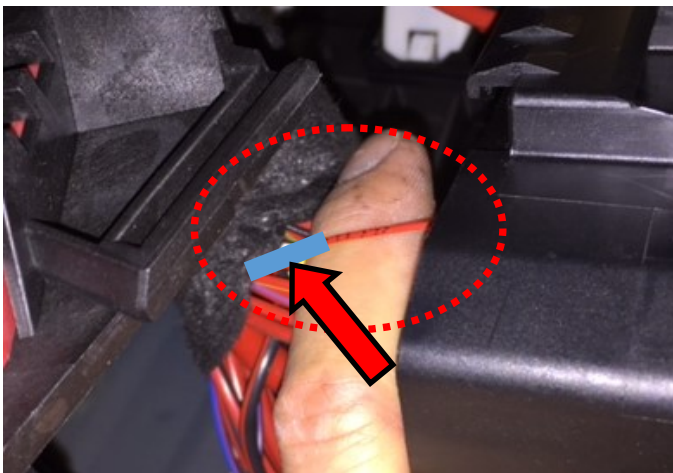


1. ECU LOCATION

Trim removal: Instrument cluster, Drivers side lower kick panel.

Using supplied alcohol wipe clean mounting point ensuring surface is clean from any grease or dirt. Connect the power harness and then secure the T.342 ECU to the inside of the dashboard behind the instrument cluster, as shown in the photograph opposite.

Route the power harness to drivers side fuse box

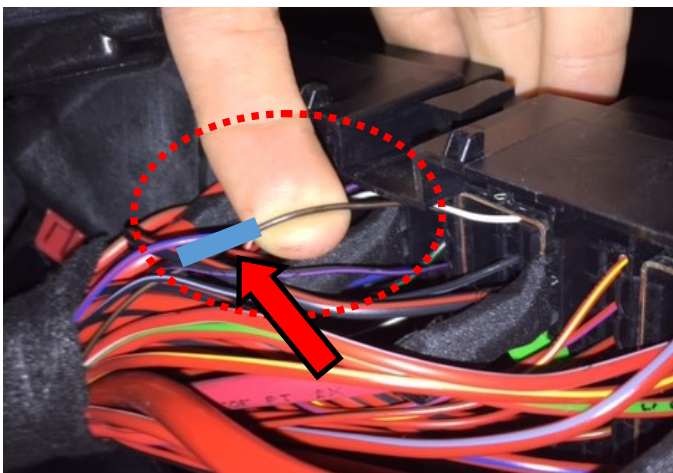


2. +30 CONNECTION

Route the Red +30 wire of the T.342 ECU to fuse position F9. Connect to the Red/Yellow wire using the supplied fuse holder and duraseal connectors.

Ensure that all wires are taped and routed alongside existing vehicle harness.

[REFER TO IMAGE AND DIAGRAM PAGE 2](#)

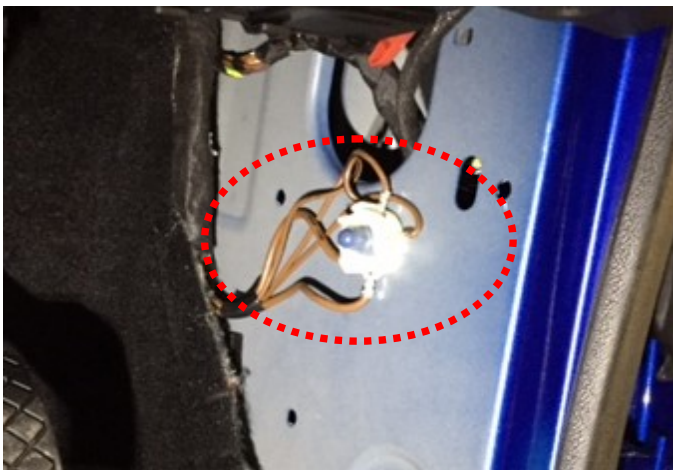


3. + 15 CONNECTION

Route the Orange wire from the T.342 ECU to fuse position F42, splice connect to the Black/Green wire using supplied Blue duraseal connector.

Ensure that all wires are taped and routed alongside existing vehicle harness.

[REFER TO IMAGE AND DIAGRAM PAGE 2](#)



4. -31 CONNECTION

Route the Black wire of the T.342 ECU to the ground point located at the bottom of the drivers side 'A' pillar area. Crimp on supplied Red ring connector and connect to the M6 stud, re-fit retaining nut tighten as per Elsa torque settings.

Ensure that all wires are taped and routed alongside existing vehicle harness.



[NOW CARRY OUT THE INITILISATION PROCESS](#)



SYSTEM INITIALISATION AFTER FITMENT OF THE PRODUCT (INSTALLER)

The screenshot shows the Meta Trak website interface. At the top, there is a navigation bar with links: Contract Search, Reports, Sales, Administration, and Accident search. Below this, a 'Search' dropdown menu is open, showing options: Contract Search, New Contract, Contracts List, Dealer Device Replacement, Accounts, and ContractOperations. The 'Contract Search' option is highlighted. Below the menu, there are various input fields for contract details, including Contract No., Last name, Status, TSP, Account, Mobile Number, Is blocked, and Dealer Group. There are also sections for 'Operations' (Installation Date, Disable Date) and 'Device details' (Rate, IMEI No, Name, Device status, Script, PartNo, Status, Fault, Script version). At the bottom, there is a 'Contract List' section with a table showing contract details.

No	Agent	Company Name (if applicable)	Customer	Vehicle Model	Vehicle Registration
50656	Andy A.		Fitzpatrick D.		
50609	Andy A.		Fitzpatrick D.		
66775	Andy A.		Fitzpatrick D.		

Step 1.

Log into the Meta Trak website <https://adm.metatrak.it/> using the detail supplied to you.

Click on "Contract Search" on the top left of the screen and then scroll down the pop up menu and select "Contract Search"

Step 2.

Select the relevant customer/vehicle from the contract list (or use the search fields); verify the IMEI No is the same as the one on the device you are installing. Click on the installation 'No.' to proceed.

(If not found check whether Sales Admin have entered the customer contract data).

The screenshot shows the Meta Trak website interface. At the top, there is a navigation bar with links: Multiple Connectors, Web Slice Gallery, Suggested Sites, and Amazon. Below this, there is a 'Contract List' section with a table showing contract details. The table has columns: No, Agent, Company Name (if applicable), Customer, Vehicle Model, and Vehicle Registration. The table contains three rows of data. Below the table, there is a section for 'ACTIVATION OPTIONS' with a list of options. The option 'DEVICE INITIALISATION / PRINT CONTRACT' is highlighted with a red dashed circle.

No	Agent	Company Name (if applicable)	Customer	Vehicle Model	Vehicle Registration
50656	Andy A.		Fitzpatrick D.		
50609	Andy A.		Fitzpatrick D.		
66775	Andy A.		Fitzpatrick D.		

Step 3.

Scroll to the bottom of the page and click on 'DEVICE INITIALISATION'



DEVICE INITIALISATION / PRINT CONTRACT

ACTIVATION OPTIONS

1. To test and ACTIVATE the device NOW - Send 'INITIALISATION' check values in 'System Values', verify 'Device Setup'.
2. To test and ACTIVATE the device from the Meta Trak Web Platform LATER - DO NOT CLICK 'FINISH', simply close the page in browser.
3. Otherwise click 'Finish'.

Device Setup

Vehicle Position

Status: +

System Values

Map Satellite

Back Finish

Step 4.

Click 'Device Setup' and send the 'Initialisation' command.

DEVICE INITIALISATION / PRINT CONTRACT

ACTIVATION OPTIONS

1. To test and ACTIVATE the device NOW - Send 'INITIALISATION' check values in 'System Values', verify 'Device Mode' = 4, send 'Get Position', check position is correct.
2. To test and ACTIVATE the device from the Meta Trak Web Platform LATER - DO NOT CLICK 'FINISH', simply close the page in browser.
3. Otherwise click 'Finish'.

Device Setup

Initialisation Send

Unlock OBU Send

Vehicle Position

Status: Red: Activating

32, Launceston Drive,
Coalville, LE67 3QQ

Co-Ordinates 52.714183, -1.36874

14.03.2018 12:51:34 0 km/h

System Values

Event	Event date	Reception date/time	Delay / Age
Status Report	14.03.2018 12:51:37	14.03.2018 12:51:37	
SMS Delivered	14.03.2018 12:51:34	14.03.2018 12:51:34	
FW Version Report	14.03.2018 12:51:30	14.03.2018 12:51:30	
Active (Normal)	14.03.2018 12:51:29	14.03.2018 12:51:29	
StatusInfo	14.03.2018 12:51:10	14.03.2018 12:51:29	19s
Parameters Received	14.03.2018 12:51:29	14.03.2018 12:51:29	
SMS Delivered	14.03.2018 12:50:49	14.03.2018 12:50:49	
Set Qtrak EU	14.03.2018	14.03.2018	

Map

Step 5.

A number of commands will now be sent automatically by the Meta Trak server. After approx. 1min a position with address will be shown, as below.

(If no position becomes available within 1-2mins click 'Vehicle Position' and send the 'Get Position' command).

Device Setup

Vehicle Position

Get Position Send

Status: Red: Activating

20 Forest Rd, Coalville LE67 3SN, UK

Co-Ordinates 52.714183, -1.36874

14.03.2018 12:51:34 0 km/h

System Values

Device Info

Firmware Version 49 14.03.2018 12:51

Device Mode Status

Automatic Immobiliser Mode 0 13.03.2018 17:44

Device Mode (4 = Normal/Active) 4 14.03.2018 12:51

Privacy Mode (0 = OFF) 0 01.01.1970 0:00

Device Status

Ignition OFF 01.01.1970 0:00

Mileage Reminder 0 13.03.2018 17:44

Odometer 0 13.03.2018 17:44

ServiceMaintenanceTime 0 13.03.2018 17:44

Starter Immobiliser OFF 01.01.1970 0:00

TimeOdometer 0 13.03.2018 17:44

Voltages

Internal Battery Voltage 2.5 14.03.2018 12:51

Vehicle Battery 12 14.03.2018 12:51

Map

Step 6.

Check:

Device Mode = 4

Internal Batt V = >2.3

External Batt V = +/- 0.3V vs. actual battery voltage

Ignition = ON, when full ignition is ON

= OFF, when ignition is OFF

(If System Values data is not visible click on 'System Values').

Step 7. ID TAG OPERATION CHECK

ID-Tag Check (Step 4)

Switch the ID-Tags ON by pressing the central button 3 times for at least one second;





+	ID Tag recognised	14.03.2018 15:01:34	14.03.2018 15:01:36	2s.
+	Ignition ON	14.03.2018 15:01:28	14.03.2018 15:01:32	4s.
+	Ignition OFF	14.03.2018 15:01:08	14.03.2018 15:01:24	16s.

Step 8.

Switch the Ignition ON and check for an 'ID Tag recognised' event in the Event List.

Event	Event date	Reception date/time	Delay / Age
+	ID Tag recognised	14.03.2018 15:19:24	14.03.2018 15:19:27 3s.
+	ID Tag recognised	14.03.2018 15:19:22	14.03.2018 15:19:23 1s.
-	ID Tag recognised	14.03.2018 15:19:03	14.03.2018 15:19:05 2s.

Map XML

Time	14.03.2018 15:19:03
Latitude	52,714216
Longitude	-1,368797
Altitude	0
Course	196
GPS	3
Glomass	2
Speed	0
Address	10 Forest Rd, Coalville LE67 3SH, UK

dop	<hdop>6</hdop><pdop>8</pdop><vdop>5</vdop>
driver_tag	<battery_status>false</battery_status> <button_pressed>false</button_pressed> <button_pressed_long>false</button_pressed_long> <button_pressed_twice>false</button_pressed_twice> <id>1</id><mac>98072DA97001</mac>
raw_event	30
ajacent_event	40
transport_crc_ok	true
created_at	1521040743
from_log	true
time	1521040743

+	Ignition ON	14.03.2018 15:18:57	14.03.2018 15:19:03 6s.
+	Ignition OFF	14.03.2018 15:10:49	14.03.2018 15:10:59 10s.

Step 10.

To test more than one ID-Tag at the same time

Ensure all ID-Tags have been switched on and the LED is flashing.

Switch the Ignition ON and check for 'ID Tag recognised' events in the Event List.

(There may be more than one event for the same ID-Tag)

Now check for the MAC code (*printed on the RED Code Card attached to the ID-Tag*) from each ID-Tag within the 'ID Tag recognised' events.

Click on '+' to the left of the event to expand it. Check the following events in the same checking for the MAC code of the other ID-Tags.



Ensure testing is completed BEFORE clicking 'Finish'. You will not have access to the device after clicking 'Finish'

Finally, attach the ID-Tags to the vehicle keys.

Meta Trak Dealer Demo Key Tag

Attach the Key Tag included in the kit to the demonstrator keys.