

INSTALLATION GUIDE

Version: 4.3 (UCAST)

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Fleet Download Key _____

Driver Login (for testing) _____



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Schematic



Figure 1: Wiring diagram

See Step 5 for detailed notes on connecting a meter to SmartMove.



Equipment Checklist

The SmartMove system consists of:

Components:		
1x UCAST screen and cabling		
1 x Cable Installation Loom		
1x Meter listen adapter. Allows SmartMove to connect to the meter OR share the meter with EFTPOS terminal (in listen mode).		
1x GPS (Global Positioning System) Antenna		
1x GPRS Antenna		
1x Panic Switch	Jan Barris	



1 x Fuse (not supplied)	
1 x Power diode (not supplied)	
1x Mounting Bracket Kit	



Step 1 Install SIMs (IF APPLICABLE)



Step 2 Fit Mounting Bracket

Assemble the Mounting Bracket	
Attach the mounting bracket to the rear of the screen	





Step 3 Mount Screen

Holding the screen in an appropriate position, loosen the joints and adjust the arm to find a suitable location to attach the mounting pad. Ensure it doesn't interfere with the driver controls.

Peel back the protective layer on the base of the mounting pad to reveal the 3M sticker pad, use this to adhere in the desired mounting position (generally on the dash to the right of the steering wheel). Use a couple of small screws to fix the mount permanently.



Step 4 Connect Loom to Vehicle









Step 5 – Connecting the meter (OPTIONAL)

If fare details are to be transferred from the meter to SmartMove then the meter must be connected in the way described below. The method varies slightly depending on the type of meter.

a) Schmidt Gx meter without EFTPOS Terminal





Connect the RJ12 SmartMove lead on the loom to the EFTPOS TERMINAL port of the Protocol Converter box.		
Set the following vehicle properties	Meter Listen	1 – Listen interactively (No EFTPOS)
on the fleet management website.	Meter Protocol	0 - VTD compatible (COM5)
	Requires Fare Details	1 – Show fare screen (cannot cancel)
	(Account)	
	Requires Fare Details	2 – Show fare screen (can cancel)
	(Non-account)	



b) Schmidt Gx meter with EFTPOS Terminal





c) Martin Mkx meter without EFTPOS Terminal

Schematic		
Note: black lines represent existing cables		UCAST
Connect the RJ12 Meter Cable to COM1 of the meter breakout box		
Set the following vehicle properties	Meter Listen	1 – Listen interactively (No EFTPOS)
on the fleet management website.	Meter Protocol	0 - VTD compatible (COM5)
_	Requires Fare Details (Account)	1 – Show fare screen (cannot cancel)
	Requires Fare Details	2 – Show fare screen (can cancel)
	(Non-account)	



d) Martin Mkx meter with EFTPOS Terminal

Schematic		
Note: black lines represent existing cables		
With the RJ12-RJ12 modular line cable connecting the Break Out box to the EFTPOS terminal, disconnect the Break Out box end and connect it to the free RJ12 port of the Inline Coupler of the Meter Listening cable.		From EFTPOS terminal
With the short RJ12-RJ12 modular line cable connected to the other end of the Inline Coupler, connect it to the COM1 port of the Break Out box.		From EFTPOS terminal
Connect the SmartMove terminal's RJ12 meter connection to the joiner on the Meter Listen Adapter		From EFTPOS terminal
Set the following vehicle properties on the fleet management website	Meter Listen Meter Protocol Requires Fare Details (Account) Requires Fare Details (Non-account)	 2 – Listen passively (EFTPOS) 0 – VTD compatible (COM5) 1 – Show fare screen (cannot cancel) 2 – Show fare screen (can cancel)



e) Novax Leda meter without EFTPOS Terminal

Schematic		
Note: black lines represent existing cables		
The black lines represent existing cables		
Connect the RJ12 Meter Cable to one port of the Inline Coupler. Connect the RJ12 cable from the meter to the other port of the Inline Coupler.	RJ12 cable from meter goes here	
Set the following vehicle properties	Meter Listen	1 – Listen actively (EFTPOS)
	Meter Protocol	0 - V ID compatible (COM5)
	Requires Fare Details (Account)	1 – Show fare screen (cannot cancel)
	Requires Fare Details (Non-account)	2 – Show fare screen (can cancel)



f) Novax Leda meter with EFTPOS Terminal





Set the following vehicle properties	Meter Listen	2 – Listen passively (EFTPOS)
on the fleet management website	Meter Protocol	0 - VTD compatible (COM5)
	Requires Fare Details	1 – Show fare screen (cannot cancel)
	(Account)	
	Requires Fare Details	2 – Show fare screen (can cancel)
	(Non-account)	

g) Cabcharge meter with EFTPOS Terminal





Connect the SmartMove terminal's RJ12 meter connection to the joiner on the Meter Listen Adapter		From SmartMove
Set the following vehicle properties	Meter Listen	2 – Listen passively (EFTPOS)
	Meter Protocol	0 - VTD compatible (COM5)
	Requires Fare Details	1 – Show fare screen (cannot cancel)
	(Account)	
	Requires Fare Details	2 – Show fare screen (can cancel)
	(Non-account)	

Step 6 Fit GPRS (mobile phone) antenna

If supplied with a windscreen type antenna, stick the antenna to the top of the windscreen (driver's side) and run the cable down the A-Pillar.	
If supplied with larger roof type antenna, mount it to the center of the roof and run the cable down the pillar to the Screen. This installation will achieve maximum gain. Alternatively, the antenna can be mounted to the roof rack. If supplied with the smaller roof type antenna, mount it under the dome and run the cable down the pillar to the screen.	



Step 7 Connect screen to loom

Once the loom is wired up, it is simply a matter of attaching the loom, GPS Antenna, and GPRS Antenna to the screen	
Start by attaching the screen to the main loom; you will notice a couple of lights on the screen, but it will take a few moments before you get an image on the screen.	
Attach the GPS antenna to the bottom of the screen	
Attach the GPRS (Mobile) antenna to the top of the screen.	
Use cable ties (or alternative method) to tidy up the cables and keep them out of the way. Often they are tied to the mounting bracket to secure the position.	



Step 8 Configure SmartMove

If the system is not already on the configuration page (shown in next box); press the GPS button (pictured right) to enter the debug.	
Select the 'Config' page, choose the fleet then press the <i>Show Vehicles</i> button. If the fleet you are setting up is not shown, or the box displays ' <i>ened config</i> '; enter the fleets download key into the 'Download Key' box and hit Download File	Yes Yes Yes Yes Yes Debug PAGE 1 PAGE 2 PAGE 3 Name Yes Server GPS Properties Config Version About Image: Config Version About Name Yes Fleet Password: Show Vehicles Name Yes Choose Fleet: Show Vehicles Name Yes Choose Vehicle: Peace Click Loac Save Config Non TH Download New Configuration File: Download File Cones Detail 2:39 PM Zone: MILE END (*) Yes Yes Yes Yes
Select the vehicle and press the <i>Save</i> <i>Config</i> button. Shortly afterwards the unit should show that it is connected to the server.	



Step 9 Test SmartMove

This step is not required for vehicles without meters. With the meter switched on but not running, the car symbol at the bottom right should show one person in the car. With the meter running the symbol should show three people in the car If the symbols are inverted the car needs to be reconfigured in the system. Set the vehicle property Vehicle Inverted Meter to Y or N. If the symbol doesn't change then check that the dome light goes on and off with the meter - a new bulb might be needed. If the light is working then check that the digital input line has been wired correctly. When the car is connected to the server, hold the panic button in for a second. The panic symbol should appear at the bottom right hand corner of the screen. The panic must be cleared by the base operator or call centre. Check that a GPS fix is obtained within 12 minutes. If no fix is obtained, move the car into the open, then check GPS connection and that the cables are connected the right way around (ie. GPS to bottom).