

INSTALLATION GUIDE

Version: 3.6

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Figure 1: Basic Wiring Schematic

Note 1: If the Fleet wishes to connect a meter to SmartMove or if an EFTPOS Terminal is already connected to the meter, please refer to Step 5 and find the appropriate meter brand.



Equipment Checklist

The SmartMove system consists of:

Components:	
1x WaveOn screen and computer	
1x GPS (Global Positioning System) Antenna	
1x GPRS Antenna	
1x Panic Switch	e The
Power diode	
1 x Fuse	



1x Junction box		
Mount:		
1x RAM-Mount		
2x 56mm nut and bolt (secures RAM-Mount to plate)	PP	
1x WaveOn mounting plate		
4x Plate screws (secures mounting plate to rear of WaveOn)		
Cables:		
1x12V battery lead running to the junction box		
1x 50-pin Data cable		



1x Digital IN cable	
1 X 12V Power cable running from the Junction box to the Waveon screen	
Cables (if connecting to SmartMove):	
1x Meter Listening Cable (not required for vehicles without meters).	
1 X RJ12-RJ12 modular line cable	
1 X RJ12-RJ45 line cable	
1 X RJ12-RS22 cable	
1 X Inline Coupler	

Table 1: Equipment checklist



Step 1 Fit mounting bracket



Step 2 Fit column mount





Fit the RAM mount extension arm loosely to the car column RAM base.

NB Don't fit the screen yet – wait until the junction box is fitted and the cables are ready to attach.



Step 3 Position Junction box



Step 4 Fit cables









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



d) Martin Mkx meter with EFTPOS Terminal

Schematic		
Note: black lines represent existing cables		
With the RI12-RI12 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			
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 Meter Protocol Requires Fare Details (Account)	 Listen actively (EFTPOS) VTD compatible (COM5) 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)
5	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





Step 7 Connect screen and power

Attach the 50-pin data cable and 12V power cable to the screen.	
Fit the screen.	
Connect the 12V battery lead to the junction box. The red wire should be attached to $\pm 12V$ and the	
black wire to -12V. A low amp fuse (eg 10 amp)	
should be wired in to the power cable to prevent	
damage to the junction box in case of any problems	
with the wiring. Fit a switch in a convenient position if there is a possibility the vehicle will be off the road	
for more than a day. Preferably wire separately from	
the radio to prevent possible interference.	
Check power is supplied to junction box and screen	
(lights should be on). The startup screen will appear	
in around 30 seconds and the SmartMove login	
screen should appear in about a 2 minutes. You may	
need to switch the selection using the centre button.	



Step 8 Configure SmartMove

If the panel where the vehicle is configured is not being displayed, tap the Server button (circled in the screenshot below) and then tap the Config tab. This will likely already be displayed.	Debug Server GPS Properties Config Version About Fleet Password: Choose Fleet: Choose Fleet: Show Vehicles Choose Vehicle: Please Click Look Save Config Download New Configuration File: Download Key: Download File Zone: Zone:
Tap in the Download Key text box so a cursor is displayed in the text box and a number pad is displayed on the right. Use the number pad to enter the download key for the fleet. If you don't know the download key for the fleet, please contact SmartMove support.	Download Key: Download File YOUR DOWNLOAD KEY IS
After the download key has been entered, tap the Download File button. Wait until 'File Downloaded Successfully' is displayed. You will now be able to select the fleet.	File Downloaded SuccessfullyDownload New Configuration File:Download Key: ****Download File



Tap on the Choose Fleet drop down list box and then tap on the correct fleet to select it from those listed.	Choose Fleet: Karratha Show Vehicles
If a password is required for a fleet, tap the Fleet Password text box so that the cursor is displayed in it and enter the password using the key pad on the right. Note: Most fleets don't use a password. If a password isn't required, then the Fleet Password text box should be left empty.	Fleet Password:
Tap the Show Vehicles button and wait until the Choose Vehicle drown down list box changes from 'Please Click Load' to 'Please Select'.	Choose Vehicle: Please Select Save Config
Tap on the Choose Vehicle drop down list to display the list of vehicles. Tap on the correct vehicle. If the vehicle is not displayed, try scrolling up or down the list.	Choose Vehicle: Please Select Save Config Please Select ABC 123 DDD 434 DDD 434



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Tap the Save Config Button and wait for the Login panel to display. SmartMove is now configured for the vehicle.	Choose Vehicle: HC759	Save Config
Shortly afterwards the unit should show that it is connected to the server.		

See V:\projects\CellTrack\web_orig_files_images\tims_files\SMVConfigVehicle.html and V:\projects\CellTrack\web_orig_files_images\tims_files\SMVServerTab.html



Step 9 Test SmartMove

Look at the properties page on the Debugging screen and check that the car is configured for digital input. If the unit is configured for analogue call SmartMove support to have it changed.	Debug Server GPS Properties Con g Version About
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 – call SmartMove support and ask for the meter signal to be inverted.	
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.	
NB: Not required for vehicles without meters	
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 smartMove support. Please call 0407 728 442.	
Check that a GPS fix is obtained within 5 minutes. If no fix is obtained, move the car into the open, then check GPS connection or junction box and the 50pin data cable on the WaveOn screen.	