aIBeReN

iTAKSİ
M12 TAXIMETER
USER GUIDE

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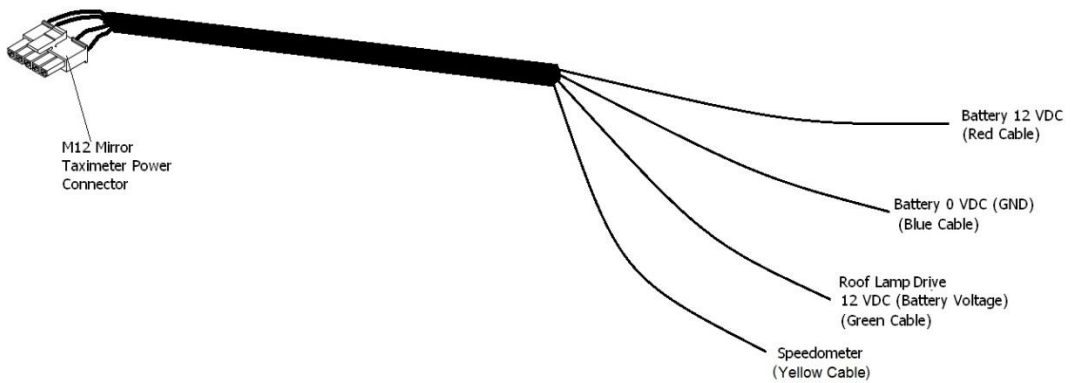
Issue 2. January 2016

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1. VIEW

1.1. FRONT VIEW

Communication connector for Setup Device, printer, cash register, pos machine, vehicle tracking, etc (Test Connector in the Test Position)

Taximeter position display

Mirror

HIRED
I

EXTRA
3.50
2.70 £

tariff loading

Fare display

Infrared receiver and transmitter for Setup Device

Keypad

Software update connector (Test Connector in the Test Position)

Seal switch for using Setup Device

Seal cap (for the parameter setting and tariff loading)

The hole for seal screw

START
>
STOP
+
VACANT
−
EXTRA
■

1.2. REAR VIEW

This sealing secures the screw holding the M12's front and rear case together and prevents access to internal parts

Power Connector

This cover and sealing for power connector

This sealing also secures the screw holding the M12's front and rear case together and prevents access to internal parts

alBeReN
CE M12 1432
ELECTRONICS LIMITED CO.
SERIAL NUMBER

MODEL:	M12	TYPE APPROVAL CERTIFICATE NUMBER										
k Constant:	720~26.000 pu se/km	SK 12-0XY M6-007										
Electromagnetic class: E3												
Mechanical Class: M3												
Climatic Class:	+45 °C to +70 °C											
YEAR OF PRODUCTION:	1	2	3	4	5	6	7	8	9	10	11	12
	2012	2013	2014	2015	2016	2017						

mounting screw

Label

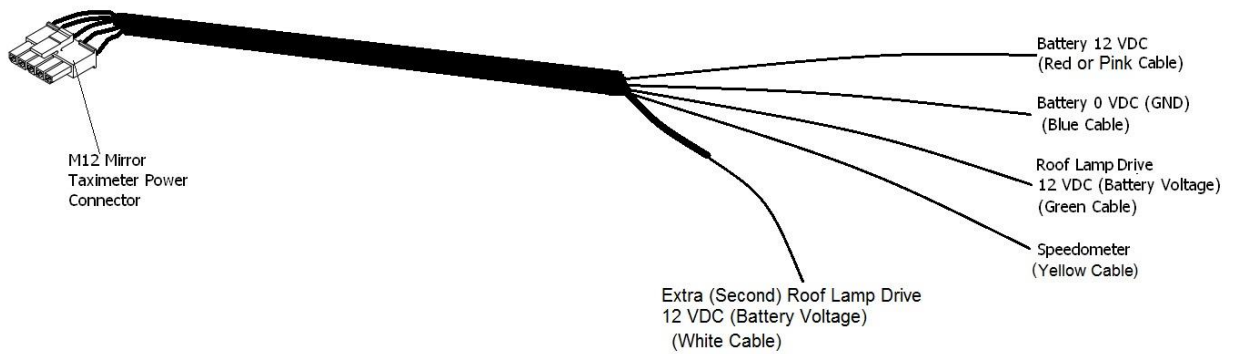mounting screw

The hole of cable tie for the installation

The hole of cable tie for the installation

2. CABLES

2.1.   POWER CABLE

2.2.   POWER CABLE WITH SECOND LAMP DRIVE

2.3.   PRINTER CABLE

3. KEY FUNCTIONS

Keys	In mode "FOR HIRE"	In mode "HIRED"	While browsing in the menu	While changing parameters
START >	Starts the tariff	Select different tariff	Starts the tariff	Scroll digit
STOP +	Show time and date in three different format	Stop the tariff	Change to the next menu parameter	Increment digit
VACANT –	Show last fare, meter counting, speed	Pass to mode "FOR HIRE"	Change to the previous parameter	Decrement digit
EXTRA	Enter menu	Increment extra fee	Pass to sub menu	Confirm the changes
↩	Cancel time, date, or speed showing	Cancel extra fee entered	Pass to the top menu	

4. SOME SCREEN EXPRESSIONS WHILE THE TAXIMETER IS ON

ENGLISH	EXPLANATION
FOR HIRE	
HIRED 1,2,3,…	HIRED Mode
STOPPED	Payment-Fare position (Total Fare)
EXTRA	while there are extra fare in the top screen

5. CHARACTER TABLE

Space	**Space**
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

? (Ö)	ō
@ (Ü)	ū
A	A
B	b
C	C
D	d
E	E
F	F
G	g
H	h
I	ı

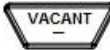| J	J
K	k
L	L
M	m̄
N	n
O	o
P	P
Q	q
R	r
S	S
T	t

U	U
V	u
W	ū
X	H
Y	y
Z	Z

6. OPENING THE TAXIMETER

While the taximeter is turned off (there is no text on the screen);

If it is pressed to any key of the taximeter, driver selection menu is shown in upper screen. Also shift number is shown in lower screen. When each taximeter is closed and opened, shift number is incremented.
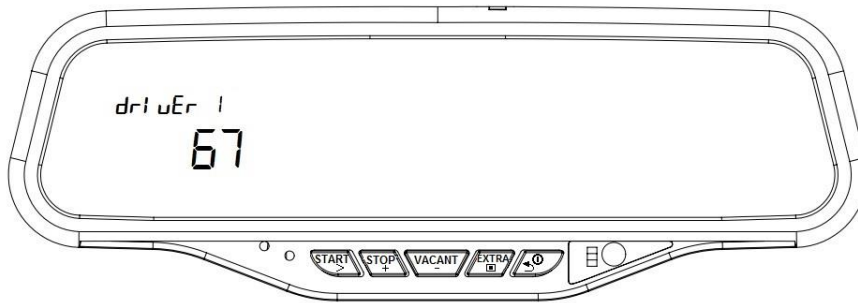
The driver can be changed by pressing or

There are 3 different users (drivers) in the taximeter. 4. User is admin. Separate records for every 3 drivers are saved. Fourth user-admin can see all records.

Later, if any password is entered for the drivers, the password menu is shown in the screen after pressed button.
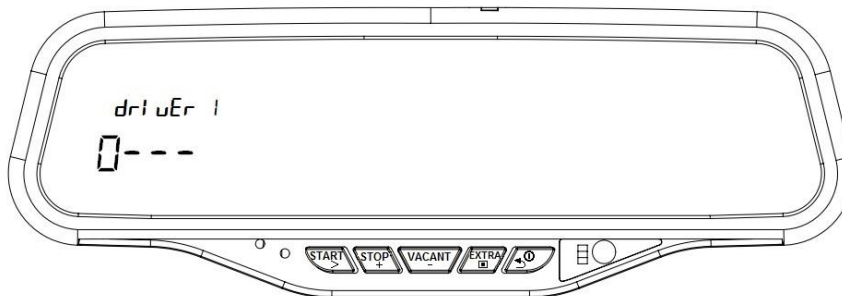
4-digit password is entered using , and buttons. Later, the taximeter is opened pressing button.

6.1.   OPENING THE TAXIMETER AS ADMIN

Fourth user of the taximeter is admin. When taximeter is opened as admin, the tariff is not opened.
It can be seen all revenue records of the 3 different drivers by admin. This records can be printed by admin. Also they can be erased by admin.

Drivers and admin passwords can be changed by admin.

7. DISPLAY SHIFT NUMBER

In FOR HIRE position when pressed [button icon] button, taximeter shows shift number. When each taximeter is closed and opened, shift number is incremented.

8. DISPLAY TIME AND DATE

There are three formats for showing time-date in the taxi meter:

When [STOP button icon] button is pressed once in the "FOR HIRE position, time is shown in the upper screen as at the below.
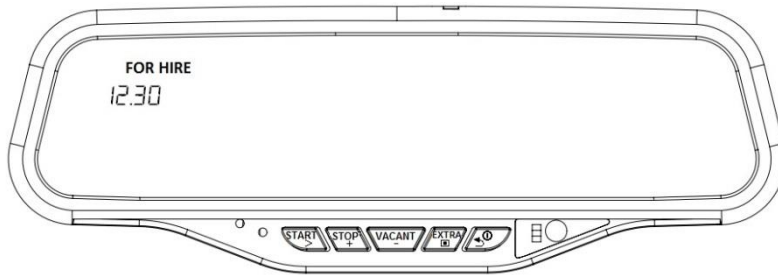
When [STOP button icon] button is pressed a second time.
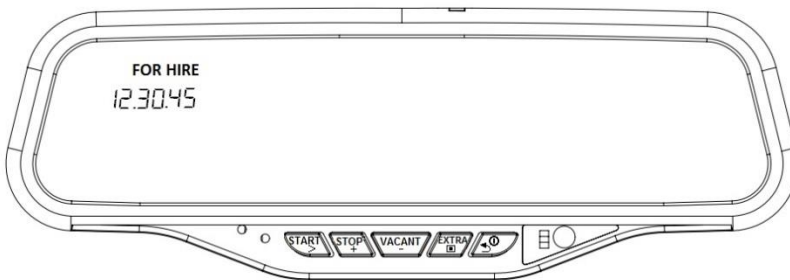
Lastly, when [STOP button icon] button is pressed a third time.
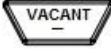
If the taximeter doesn't receive speed signal, the time-date information remains in the screen for 60 seconds.

9. DISPLAY LAST FARE, METER MEASUREMENT AND SPEED

When ⌷VACANT⌷ button is pressed firstly in the "FOR HIRE position,fare of the last trip is shown in the sub screen as at the below.

FOR HIRE
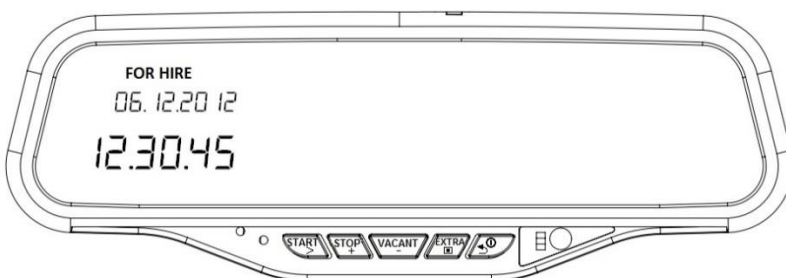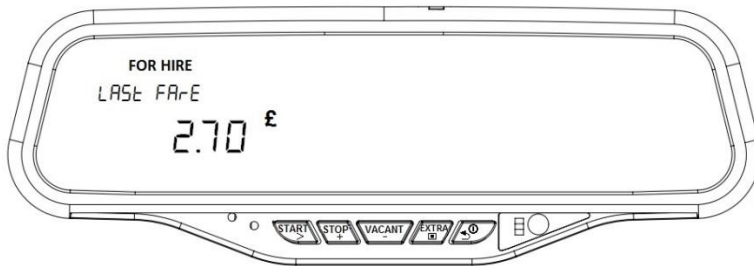LASt FArE
2.70 £

Press again ⌷VACANT⌷ button, meter measurement is shown in the screen as at the below. When vehicle moved, counter starts to count in meters.

FOR HIRE
ЛEASUrE   METER
2 17
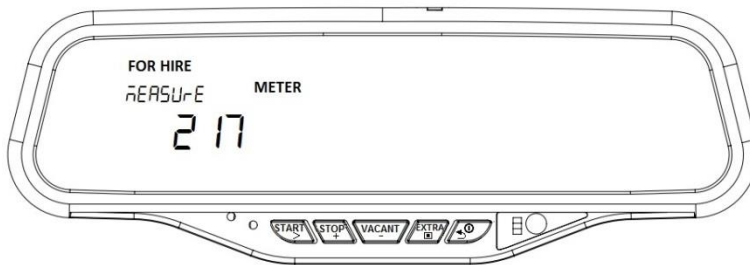
Press again ⌷VACANT⌷ button, speed of the vehicle is shown in the screen as at the below.
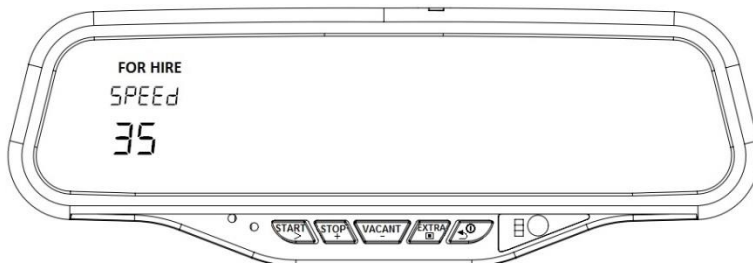
FOR HIRE
SPEEd
35

If the taximeter doesn't receive speed signal, the speed remains in the screen for 60 seconds

10. OPENING AND SELECTING THE TARIFF

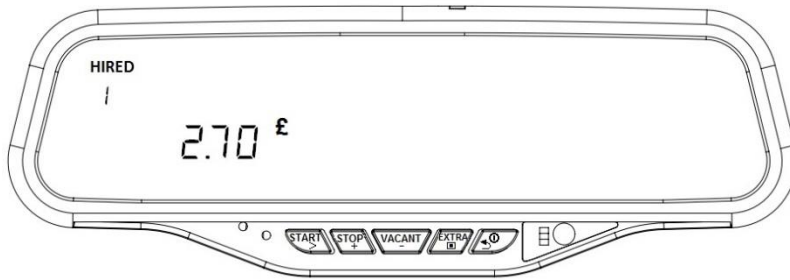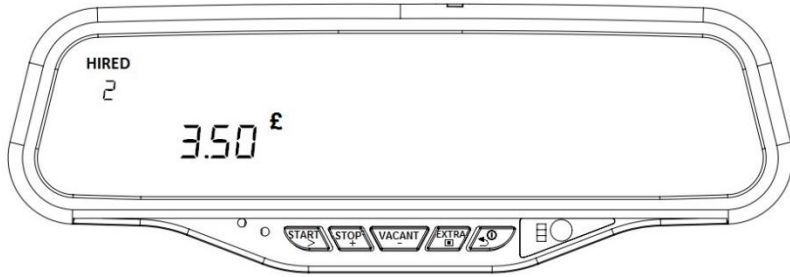When it is pressed to ⌷START⌷ button first time in the "FOR HIRE" position, the Tariff 1 is opened from the initial charge of Tariff 1 and the taximeter starts to calculate time and distance.

While the tariff is open, the tariff can be changed between loaded tariffs in 50 meters distance.

10.1. TARIFF STRUCTURE

More than 30 tariffs can be loaded to M12 Mirror Taximeter. Also the automatic change of tariffs can be triggered by the distance, duration and fare. You can see the tariff data at the table below.

M12 Taximeter tariff information

The period of validity loaded tariff depends tariff type. All detailed tariff information can be shown on print out. Only information of the active tariffs can be shown on the taximeter screen at that moment.
There are three types of the tariffs: Normal (N), Daily (D), Weekly (W)
The tariffs can be set according to specific date range periodically for every year: (HN), (HD), (HW)
Tariffs can be set according to specific date range: (SN), (SD), (SW)
Date-time formats of tariff validity duration are shown at the table

Tariff date-time types	Date-time formats	Explanation
Normal (N)	ALL YEAR ALL TIME	All Year, All Time
Daily (D)	ALL YEAR HH:MM-HH:MM	All Year, Specific time interval
Weekly (W)	ALL YEAR MON HH:MM-HH:MM TUE HH:MM-HH:MM WED HH:MM-HH:MM ………………………………..	All Year, Specific time of the week days
Holiday Normal	START DD/MM HH:MM	Specific Date Interval for every year, start

(HN)	END DD/MM HH:MM	time of first day and end time of last day
Holiday Daily (HD)	DATE DD/MM-DD/MM TIME HH:MM-HH:MM	Specific Date Interval for every year, Specific time interval
Holiday Weekly (HW)	DATE DD/MM-DD/MM MON HH:MM-HH:MM TUE HH:MM-HH:MM WED HH:MM-HH:MM ………………………………..	Specific Date Interval for every year, Specific time of the week days
Specific Normal (SN)	START DD/MM/YY HH:MM END DD/MM/YY HH:MM	Specific Date Interval, start time of first day and end time of last day
Specific Daily (SD)	DATE DD/MM/YY - DD/MM/YY TIME HH:MM-HH:MM	Specific Date Interval, Specific time interval
Specific Weekly (SW)	DATE DD/MM/YY - DD/MM/YY MON HH:MM-HH:MM TUE HH:MM-HH:MM WED HH:MM-HH:MM ………………………………..	Specific Date Interval, , Specific time of the week days
HH: Hour Hour, **MM:** Minute Minute, **MM:** Month Month, **DD:** Day Day, **YY:** Year Year If the "start time" bigger than "end time" in the daily and weekly tariffs, it's mean: 00:00 to End Time and Start Time to 23:59		

Tariff Parameters	*Tariff 1*	*Tariff 2*	*Tariff 3*	*………………*	*Tariff 40*
Init Charge (p)					
Init Distance (yard/10)					
Init Duration (second/16)					
Unit distance(yard/100)					
Unit time (second/64)					
Unit distance fare (p/10)					
Unit time fare (p/10)					
Unit extra fare (p/10)					

Tariffs which changed automatically as depends <u>distance</u> of the journey

	Tariff 1	*Tariff 2*	*Tariff 3*	*……………….*	*Tariff 16*
Limit distance (yard)					
Unit distance or unit distance fare (yard/100 or p/10)					
Unit time or unit time fare (second/64 or p/10)					

Tariffs which changed automatically as depends <u>duration</u> of the journey

	Tariff 1	*Tariff 2*	*Tariff 3*	*…………………..*	*Tariff 8*

Limit duration(second)					
Unit distance or unit distance fare(yard/100 or p/10)					
Unit time or unit time fare (second/64 or p/10)					

Tariffs which changed automatically as depends <u>fare amount</u> in the journey

	Tariff 1	Tariff 2	Tariff 3	……………………..	Tariff 8
Limit fare amount(p/10)					
Unit distance or unit distance fare(yard/100 or p/10)					
Unit time or unit time fare (second/64 or p/10)					

Tariffs which changed automatically as depends <u>speed exceeding</u> in the journey

	Tariff 1	Tariff 2	Tariff 3	……………………..	Tariff 8
Limit Speed (mph)					
Sub Limit of the speed exceeding duration (Second)					
Unit distance or unit distance fare(yard/100 or p/10)					
Unit time or unit time fare (second/64 or p/10)					

10.2. ENTERING EXTRA FEE

While the tariff is open, the extra fee is entered to upper screen by pressing extra button repeatedly.
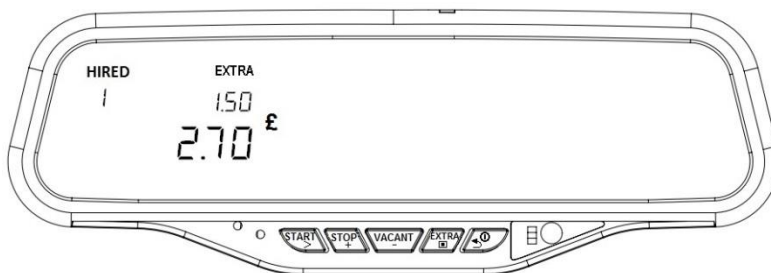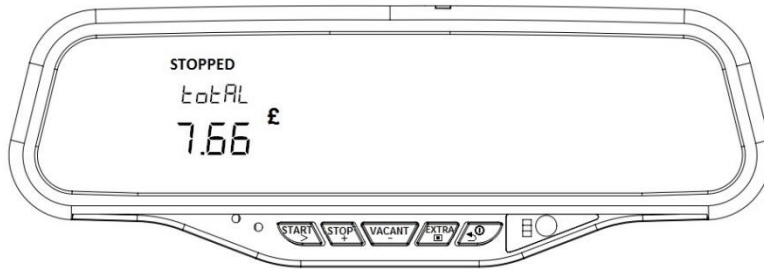
When it is pressed to extra button, extra fee is increased up to unit extra fee which loaded to the taximeter.

11. CLOSING THE TARIFF
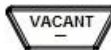
After the tariff is opened;

It should be pressed ![STOP+] button firstly to close the tariff. So, total fare is shown sub screen as shown below.

If a printer is connected to the taximeter, it can be selected" $Print$ " by pressing ![STOP+] button again as shown below.
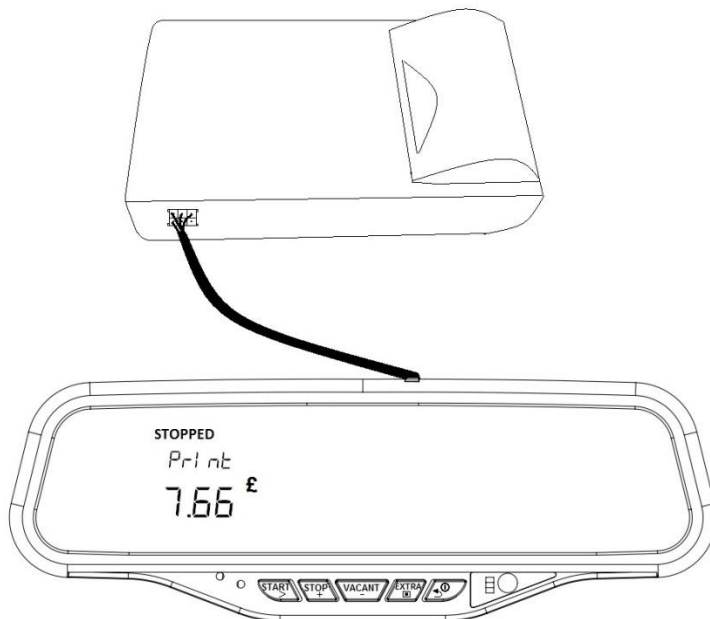
After selected "$Print$" or "$totAL$", pressed ![VACANT−] button. If 10 seconds have passed after ![STOP+] button pressed, the taximeter will pass to the "FOR HIRE" position. Otherwise, taximeter waits for 10 seconds in the "FARE" position. If selected $Print$, the printer prints a receipt.

12. ENTERING MENU

It can be reached to the menu by pressing ![EXTRA] button in the "FOR HIRE" position. All information (as counters, setting parameters, etc) are shown in menu.
Structure of the menu is shown in menu table at the below.

12.1. MENU TABLE

MAIN MENU	1.SUB MENU	2.SUB MENU			3.SUB MENU	4.SUB MENU
rEuEnUES Revenues	drI uEr 1 Driver 1	tot dI St Total distance (km)			If the taximeter is opened as Driver 1, Driver 2 or Driver 3; passing 1.SUB MENU (DRIVER 1, DRIVER , DRIVER 3 menu), directly reached to 2.SUB MENU (TOT DIST, HIRED DIST,… menu) of the driver. Counters can be printed if a printer connected.	
		hI rEd dt Hired distance (km)				
		CUStoñ n Custom number				
		EHtrA FA Total Extra Fare				
		tot FArE Total Fare				
		PrI nt Print the info				
		drur Pūd Driver Password			oLd Pūrd Old password	nEū Pūrd New password
	drI uEr 2 Driver 2	If the taximeter has opened as administrator or entered to the menu with SETUP DEVICE, it is not asked old password. Also in this case, print out of the counters is printed for 3 drivers separately				
	drI uEr 3 Driver 3					
	Adñl n Administrator	drur Pūd Driver Password			nEū PErd New Pwrd	
	uhC dI St Total Vehicle Km (Taximeter odometer) 0 KM					
	ErAS rEu Erase Revenues	ErASE Erase!!!			All revenues information are erased	
tAHI I nF Taxi Information	tI ñE Time					
	dAtE Date				Maximum last 20 records are stored about Constant k (constant k value, date of change and setup device number) These parameters can be changed using only the Setup Device.	
	ConSt 20 Constant k	dAtE 20 date of change of constant k	dEuCE 20 Setup Device number	ConSt 19		
	rE9-ul n Vehicle registration number					
	LI CEnCE Taxi licence number					
	SErI AL n Taximeter Serial Number					
	EHtr Y-n Permission for entering extra fee (Yes-No)					
	tI ñE Y-n Permission of time setting (Yes-No)					
	ñtrF Y-n Multi tariff at the same time (Yes-No)					
	SūCh Y-n Automatic switching Tariff 1 to Tariff 2 (Yes-No)					
	LI 9ht on Time of the light on for roof lamp				These parameters can be change by users	
	LI 9htoFF Time of the light off for roof lamp					
	PrI nt Print the information				All taxi information parameters can be printed if a printer connected	
trF I nFo Tariff Information	tArI F 1 Tariff 1	I nI t Chr Initial charge				
		I nI t dI S Initial distance				
		I nI t tI ñ Initial time				
		Unl t dI S Unit distance				
		Unl t tI ñ Unit Time				
		Unt d FA Unit distance fare				
		Unt t FA Unit time fare			While a limit meter values are shown at the upper display for auto distance tariffs, unit distance or unit distance fare values are shown at the lower display.	
		Unt EH F Unit extra fare				
		800- Sample limit meter value for auto distance tariffs				
		PrI nt Print Information				
					All tariff information (tariff 1,2,3,) can be	

|					
					printed if a printer connected
	ŁRⁿⁱ F 2 Tariff 2				
	ŁRⁿⁱ F Ʒ Tariff 3				
	....				
	ŁRⁿⁱ F I0 Tariff 10				
	ErE 20 Tariff Checksum (CRC)	dRŁE 20 Tariff Installation date	dEuEE 20 Setup Device number	ErE I9	.... The CRC code for all tariff parameters is shown. Maximum last 20 records are stored about tariff information (CRC of the tariff, date of change and setup device number)
PⁿⁱnŁEⁿ Printer Reports	dRⁱ LⁱY ⁿP Daily Report				
	EoUnŁⁿ ⁿ Total Counter Report				
	dEŁRⁱ LEd Totals Report for past days (Maybe last 30 days)				
ⁿERS5UⁿE Distance and Time Test	Time (unit: 0.5 second) on the top screen. Pulse counter on the sub screen				
uErSⁱ on Software Information	no I20567 Setu Device Number u I-02 Software Version				At the upper screen, it is shown Setup Device Number which has changed the parameters as date, constant k, etc. Software Version is shown at the lower display.

13.CLOSING THE TAXIMETER

In FOR HIRE position when pressed ⌨ button, taximeter firstly shows shift number.

To close the taximeter, it is pressed to ⌨ button minimum 2 seconds while in the "FOR HIRE" position. While the taximeter is closed, when pressed any button, it passes to driver selection menu
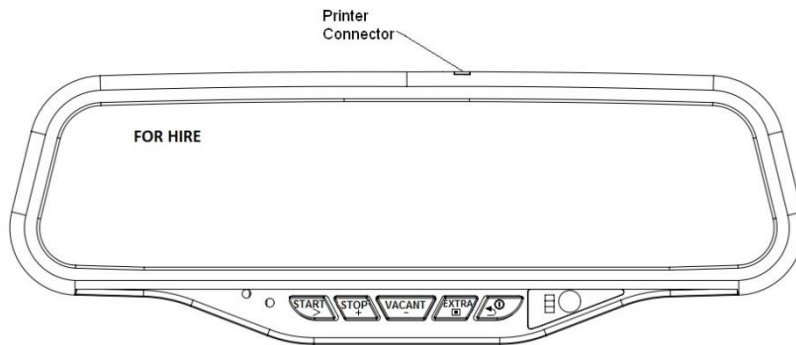
14. PRINTER CONNECTION

The Printer Cable is connected to Printer and printer connector of the taximeter. The printer gets power from the taximeter via printer cable.
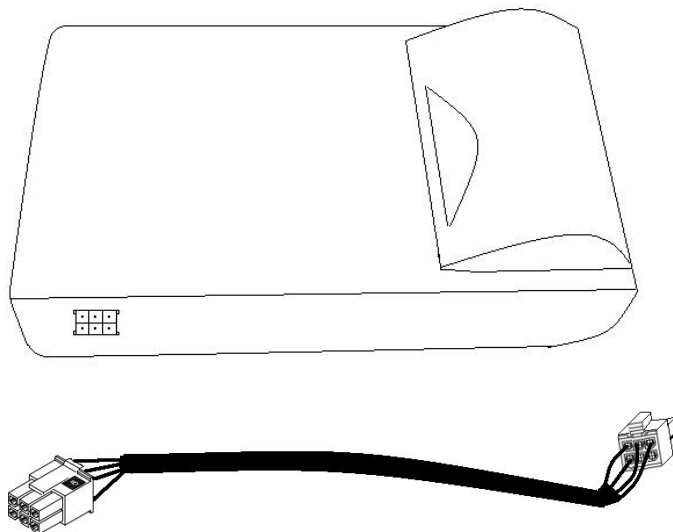
Printer Cable

Both connector of the printer cable are same. One end of the cable connected to the taximeter and other end connected to the printer

15.ROOF LAMP CONNECTION

The green cable of the power cable is connected to the positive pole of the roof lamp, other ground pole of the roof lamp is connected chassis of the vehicle.

If a second roof lamb will be connected to taximeter; then "Power Cable with Second Lamp Drive" cable should be used as power cable. Second lamb can be used for "STOPPED" or a different position. The white cable of the power cable is connected to the positive pole of the second roof lamp.