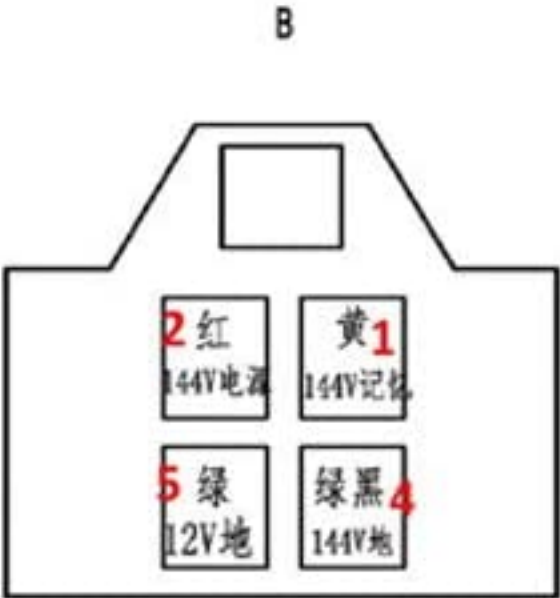


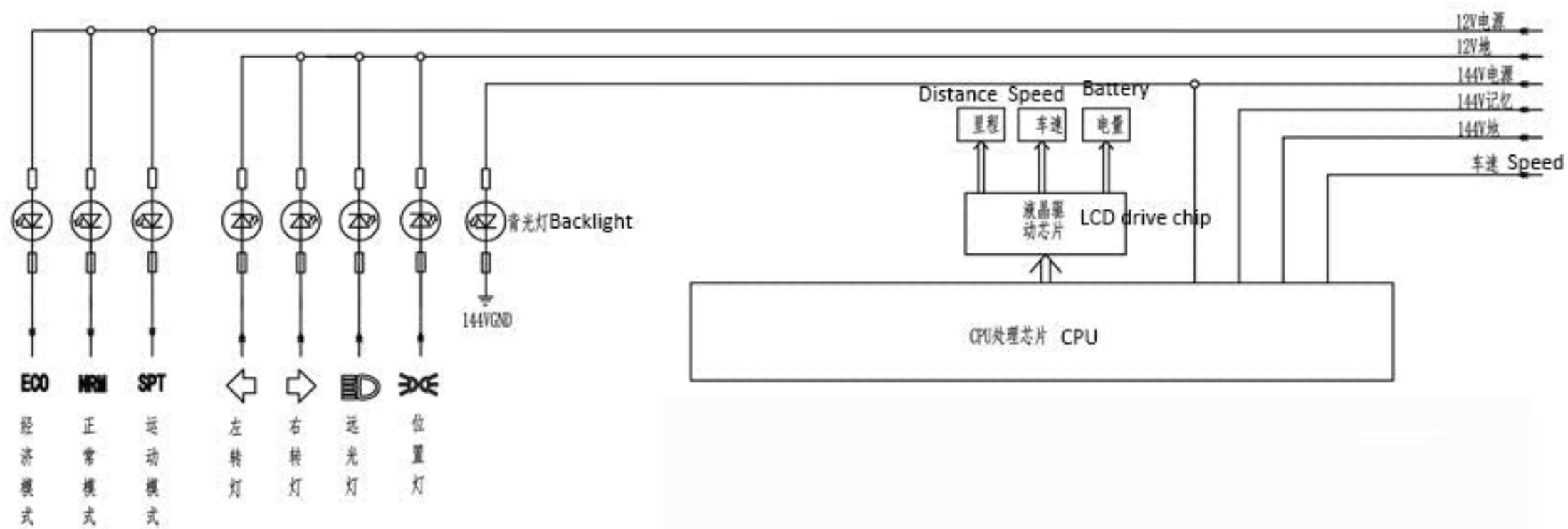
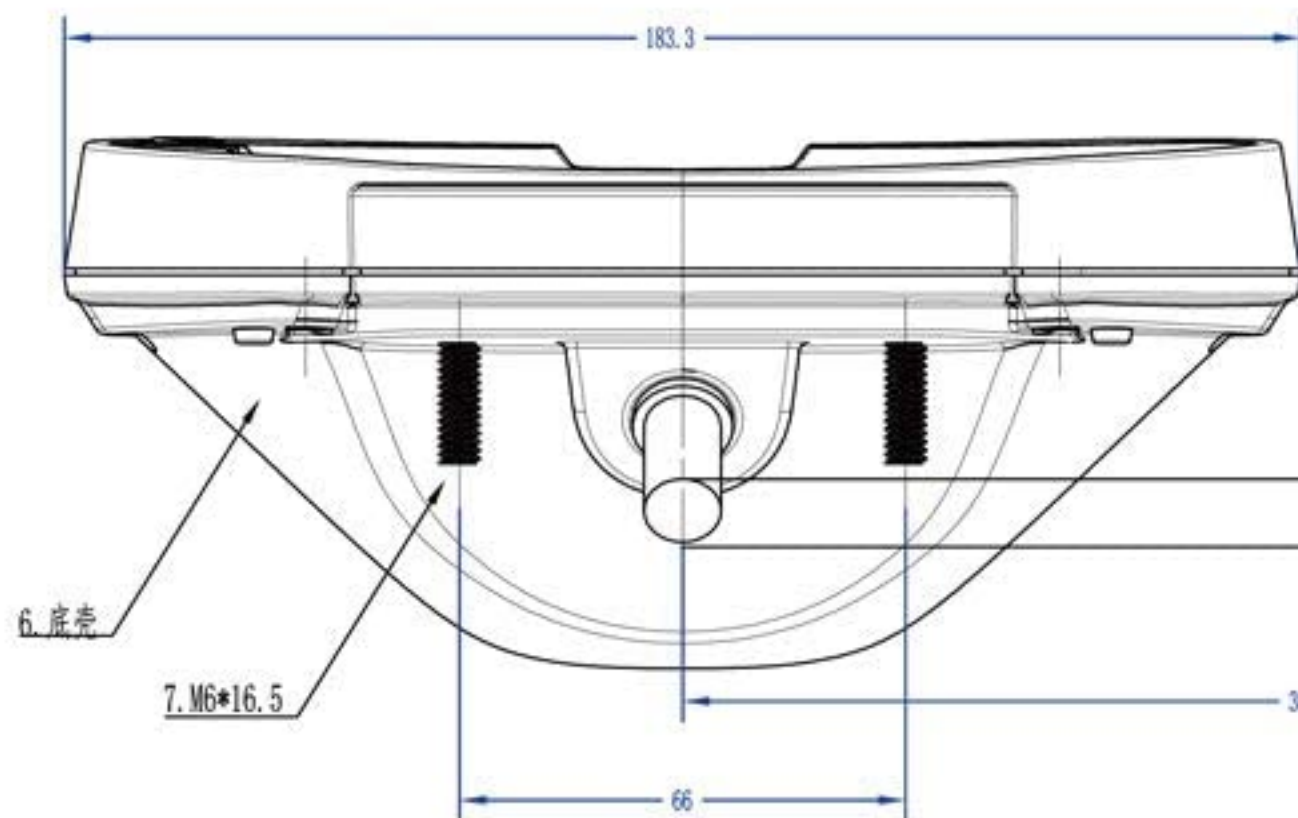
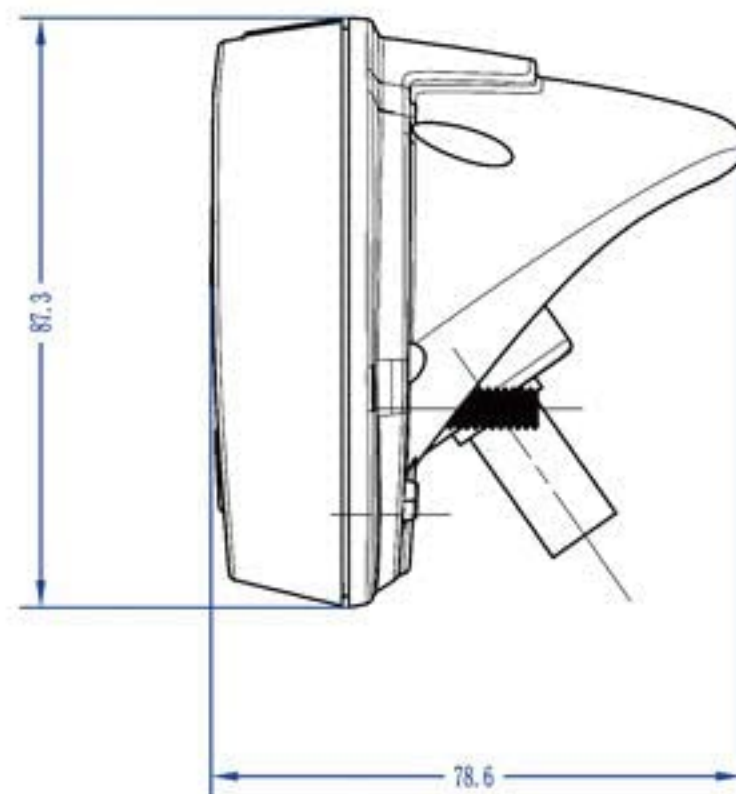
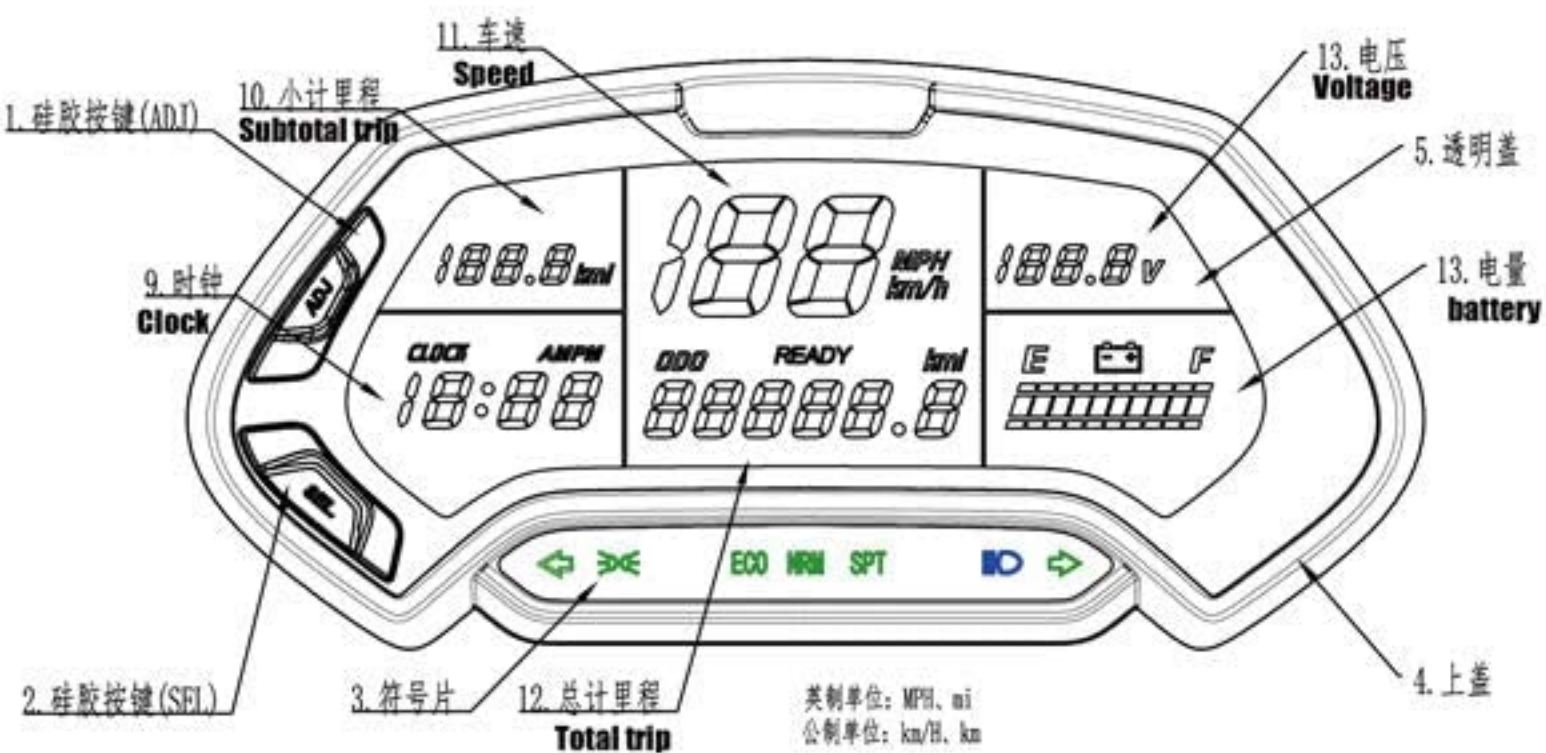
Port	No.	icon	cable color	function	display mode	Remark
B DJ7041A-2.8-21	1	Power line	Yellow	memory line		Memory line for Speedometer functions(connect with battery DC+144V)
	2		Red	power line		+144V, through electric lock
	3	144v ground	Green-Blake	ground wire for instrument		Connect with negative pole of 144v battery
	4	12v ground	Green	ground wire for LED indicator light		Connect with negative pole of 12v convertor
		READY		LCD white		when speed is zero, LED light flicker and vice versa
A DJ7091A-2.8-21	5	12V+	Black	LED power line		Connect with +12V of convertor,
	6		Brown	Position Lamp	LED green	Connected with +12V, the lamp should light.
	7		Blue	high beam light	LED blue	Connected with +12V, the lamp should light.
	8		Light Blue	right steering	LED green	Connected with +12V, the lamp should light.
	9		Orange	left steering	LED green	Connected with +12V, the lamp should light.
	10		Yellow-White	speed signal		Connected with any one of three Hall signal wires from motor/controller.
	11	ECO	Blue-Green	ECO	LED green	Connected with 12V ground, the lamp should light.
	12	NRM	Yellow-Blake	NRM	LED green	Connected with 12V ground, the lamp should light.
	13	SPT	Blue-White	SPT	LED green	Connected with 12V ground, the lamp should light.



DJ7091A-2. 8-21



DJ7041A-2. 8-21



CT-22 Speedometer Button Function

液晶仪表按钮功能说明(CT-22)

—— V1.1(2018.1.27)

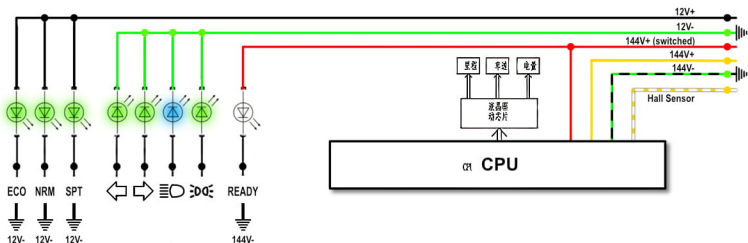
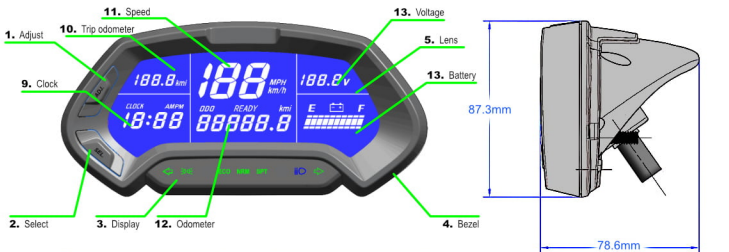


1、 clock adjust 时钟时调节

Under the normal display status, long press the button "ADJ" and power on , the figure of "minute" will flash, short press the button "ADJ" , the "minute" will increase "1"; long press the button "ADJ", the "minute" will increase continuously till you loosen it. After "minute" adjusted, short press the button "SET" , the "hour" figure will flash; Then short press the button "ADJ" , the "hour" figure will add one; long press the button "ADJ" , the "hour" will increase continuously till you loosen it. After adjusted "hour" and "minute" , save the parameters and exit.

在正常显示状态下，按设置 ADJ 上电，时间分数字闪烁，秒点常显，此时短按 ADJ 按钮一次加 1，长按 ADJ，分位连续往上加，直到放开 ADJ，调好分位后，短按 SET，此时切换到小时位闪，秒点常显，短按 ADJ 加 1，长按 ADJ，小时位连续往上加，直到放开 ADJ。小时位设置状态短按 SET，保存并推出时钟设置，长按切换到分位闪。

CT-22 Diagram (page 1)

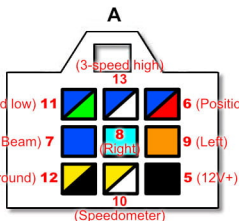


CT-22 Diagram (page 2)

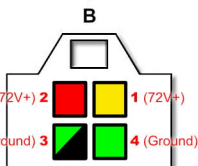
Connector	No.	Display	Wire Color	function	display mode	Remark
B DJ7091A-2 8-21	1	Voltage/ Battery	Yellow	Full-time Power	White (Numeric)	Memory line for Speedometer functions (connect with battery DC+144V)
	2		Red	Switched Power		+144V, through electric lock
	3	144v ground	Green-Black	Ground for above		Connect with negative pole of 144v battery
	4	NA	Green	LED 12V- Ground	NA	Connect with negative pole of 12v converter

	READY		System Ready	White (Text)	when speed is zero, LED light flicker and vice versa
--	-------	--	--------------	-----------------	--

A DJ7041A-2 8-21	5	NA	Black	LED 12V+ Power	NA	Connect with +12V of converter.
	6		Blue/Red	Position Light	LED green	Connected with +12V, the lamp should light.
	7		Blue	High Beam	LED blue	Connected with +12V, the lamp should light.
	8		Light Blue	Right turn signal	LED green	Connected with +12V, the lamp should light.
	9		Orange	Left turn signal	LED green	Connected with +12V, the lamp should light.
	10	Speedometer	Yellow-White	Speed Signal	White (Numeric)	Connected with any one of three Hall signal wires from motor/controller.
	11	ECO	Blue-Green	Economy Mode	LED green	Connected with 12V ground, the lamp should light.
	12	NRM	Yellow-Black	Normal Mode	LED green	Connected with 12V ground, the lamp should light.
	13	SPT	Blue-White	Sport Mode	LED green	Connected with 12V ground, the lamp should light.



DJ7091A-2 8-21



DJ7041A-2 8-21

Technical Specifications

- Working power supply is 144VDC, the indicator light source is 12VDC.
The speed sensor signal is external digital (hall) signal

- The speedometer technical specifications are as follows:

Intrinsic Error km/h	Signal Freq. Value	140Hz	280Hz	420Hz	560Hz	700Hz	840Hz	980Hz	1120Hz	1260Hz
		20-21	40-42	60-63	80-84	100-105	120-126	140-147	160-168	180-190

- The following table shows the relationship between power consumption and supply voltage:

Voltage level	<132V	132-134.5V	134.5-137V	137-139.5V	139.5-142V	142-144V	144-146V	146-149V	149-152V	>152V
1 flashing	2	3	4	5	6	7	8	9	10	

When running the display level only lowers, never rises. If it should fail, the waiting time is 30 s.
The speed decrease for each block is 15 s. Power up again, select the table to display the number of levels.

- Wire connectors should be equal to Q/HTR-2007 (Jintai motorcycle cable harness technical spec)
- 插接件及端子应符合QC/T417.1、QC/T417.2、QC/T417.3C/T417.4、QC/T417.5车用电线束插接要求；
- 导线应符合JB/T 8139《公路车用电缆（电线）要求》，导线截面积为0.5mm²；
- 其余未注尺寸按三轴模型；
- 未注尺寸公差按GB/T1804-T；
- 组合仪表各项性能指标应满足QC/T727《汽车、摩托车用组合仪表》中的技术要求；
- 仪表面板、衬板、底壳材料分别为透明PC、ABS、ABS；

Parameter set passcode 6610

P-xxxx	Passcode interface	Enter 6610 to modify the following parameters
PARAMETER	DEFINITION	NOTES
0-xxxx	Default = 420Hz @ 60km/h (???)	The speed can be modified. The corresponding frequency value is 60km/h. 0-9999
1-xxxx	Default = 420Hz @ 60km/h (???)	The mileage can be modified. The corresponding frequency value is 60km/h. 0-9999
2-xxxx	Charging status 20% battery Corresponding to battery voltage	for 132V set 1320, 10 times more
3-xxxx	Charging status 40% battery Corresponding to battery voltage	for 137V set 1370, 10 times more
4-xxxx	Charging status 60% battery Corresponding to battery voltage	for 142V set 1420, 10 times more
5-xxxx	Charging status 80% battery Corresponding to battery voltage	for 146V set 1460, 10 times more
6-xxxx	Charging status 100% battery Corresponding to battery voltage	for 152V set 1520, 10 times more
7-xxxx	Discharging status 20% battery Corresponding to battery voltage	for 132V set 1320, 10 times more
8-xxxx	Discharging status 40% battery Corresponding to battery voltage	for 137V set 1370, 10 times more
9-xxxx	Discharging status 60% battery Corresponding to battery voltage	for 142V set 1420, 10 times more
A-xxxx	Discharging status 80% battery Corresponding to battery voltage	for 146V set 1460, 10 times more
b-xxxx	Discharging status 100% battery Corresponding to battery voltage	for 152V set 1520, 10 times more
C-xxxx	Coulomb-meter full power deboost time: seconds/unit	300 means 300 sec deboost
d-xxxx	Charging status 0% Corresponding to battery voltage	for 125V set 1250, 10 times more
E-xxxx	Discharging status Corresponding to battery voltage	for 125V set 1250, 10 times more
F-xxxx	Charging memory %	Set 1 means 1%, long press 48s can clear while operating
R0	Low voltage warning value	Reserved function CY18740D_MB110D don't have this modification
J-xxxx	Battery power judge time	Set 30 means 30 seconds

2. The speedometer technical specifications are as follows:

Intrinsic Error km/h	Signal Freq.	140Hz	280Hz	420Hz	560Hz	700Hz	840Hz	980Hz	1120Hz	1260Hz
	Value	20-21	40-42	60-63	80-84	100-105	120-126	140-147	160-168	180-190

3. The following table shows the relationship between power consumption and supply voltage:

Voltage level	<132V	132-134.5V	134.5-137V	137-139.5V	139.5-142V	142-144V	144-146V	146-149V	149-152V	>152V
	1 flashing	2	3	4	5	6	7	8	9	10

When running the display grid only lowers, never rises, whether it should fail, the judgement time is 30 s. The speed decrease for each block is 15 s. Power up again, press the table to display the number of levels.

2、 Metric System Switching 公英制切换

Under the normal display status, long press the button " SET" for 10 seconds, the "km/h" will change to "MPH". Then loosen it and long press the button " SET" for 10 seconds, the "MPH" will change to "km/h".

在正常显示状态下，长按设置 SET 按钮 10 秒，公制 kmh 转换为英制 mph，放开再长按设置 SET 按钮 10 秒，英制转换成公制。

3、 Reset the subtotal TRIP 小计 TRIP 清零

Under the normal display status, long press the button " A D J " for 3 seconds, the subtotal trip will be reset.

在正常显示状态下，长按 ADJ 按钮 3 秒，可以清零小计。

4、 Reset the total TRIP 总计 TRIP 清零

Hold down "SET" for power on, enter the password interface, the display shown P-0000 lower bit 1Hz flash; under the password interface, short press flash place means add one, number 0-9 for recycle; long press flash place means shift left for one digital; After four numbers adjusted, if type password 8810, the total trip will reset. If type password 6810, then you will enter the setting interface; If type other numbers, it will jump to password interface, P-0000.

按住 SEL 键上电，进入密码操作界面，液晶显示 P-0000 低位 1Hz 闪烁；

密码操作界面下，短按闪烁位加 1，0-9 反复循环；长按闪烁位左移一位，四位全部设置好后，如符合累计清零界面（8810），直接累计清零，若符合累计设置界面（6810），则进入累计设置界面；若均不符合，则直接跳转回到密码操作界面，显

示 P-0000 ;

累计清零设置 密码 : 定义		相关说明
8810 显示内容		
P-0000	密码操作界面	P-8810 进入累计设置 界面
000000	累计自动清零	显示 1 秒后退出 , 仪表 正常运行

5、 The brightness of the background cannot adjusted. 背景灯亮度不能调节

6. Adjust the parameters of speedometer

All the following related to the display interface are speedometer part, does not involve the other segments of the LCD; the following key refers to the SEL key, the host computer is set to use the MPH, which through the text file description is to modify the KPH, If you enter the back and do not modify the speed or mileage 60km / h corresponding frequency, then it will keep the last set value, if you modify the speed or mileage 60km / h any value, it will be switched to the corresponding metric parameters.

1, press and hold the key to power on, enter the password operation interface, LCD display P-0000 low 1Hz flash;

2, Following are the password operation interface, short press flashing plus 1,0-9 repeated cycles; long press the flashing bit then left one. After four all

set, if it' s corresponded with the parameter setting password (6610), it will directly enter into the vehicle speed ratio Set the interface. If it accords with Cumulative Clear Interface (8810), it will be cleared directly. If it accords with Cumulative Setting Interface (6810), it will enter Cumulative Setting Interface; if the password of the three are not in agreement, it will jump back to the password operation interface , Display P-0000;

所有下述涉及到的显示操作界面均为液晶累计显示部分，不涉及液晶其他段；下文按键指的是 SEL 键，在上位机设置时使用的是英制，通过文本档说明修改的是公制参数 若进入后门不修改车速或里程 60km/h 对应频率 则保持上一次设置值，若修改车速或里程 60km/h 任意一个值，将都切换成对应公制参数。

- 1、按住下键上电，进入密码操作界面，液晶显示 P-0000 低位 1Hz 闪烁；
- 2、密码操作界面下，短按闪烁位加 1，0-9 反复循环；长按闪烁位左移一位，四位全部设置好后，如符合参数设置密码（6610），直接进入车速速比设置界面；如符合累计清零界面（8810），直接累计清零，若符合累计设置界面（6810），则进入累计设置界面；若三者密码均不符合，则直接跳转回到密码操作界面，显示 P-0000；

A、Parameter set 参数设置 password 密码：6610

显示内容	定义 Define	相关说明 Notes
Display content		
P-0000	密码操作界面 Password operate surface	P-6610 进入参数设置界面 P-6610 Enter the parameters

		setting surface
0-0420	420Hz 对应车速 60km/h	可修改车速 60km/h 对应的频率值
	420Hz Corresponding	0-9999
	speed 60kmh	Modifiable speed 60km/h
		corresponding frequency
		value 0-9999
1-0420	420Hz 对应里程 60km/h	可修改里程 60km/h 对应的频率值
	420Hz Corresponding	0-9999
	mileage 60kmh	Modifiable mileage 60km/h
		corresponding frequency
		value 0-9999
2-1320	充电状态 20% 电量对应电压	132V 此处填入 1320 , 扩大十倍
	值	In 132v set 1320, expand 10
	Charging status 20%	times
	battery Corresponding to	
	battery voltage	
3-1370	充电状态 40% 电量对应电压	137V 此处填入 1370 , 扩大十倍
	值	In 137v set 1370, expand 10
	Charging status 40%	times
	battery Corresponding to	
	battery voltage	
4-1420	充电状态 60% 电量对应电压	142V 此处填入 1420 , 扩大十倍
	值	In 142v set 1420, expand 10

	Charging status 60% battery Corresponding to battery voltage	times
5-1460	充电状态 80%电量对应电压 值	146V 此处填入 1460 , 扩大十倍 In 146v set 1460, expand 10
	Charging status 80% battery Corresponding to battery voltage	times
6-1520	充电状态 100%电量对应电 压值	152V 此处填入 1520 , 扩大十倍 In 152v set 1520, expand 10
	Charging status 100% battery Corresponding to battery voltage	times
7-1320	放电状态 20%电量对应电压 值	132V 此处填入 1320 , 扩大十倍 In 132v set 1320, expand 10
	Discharging status 20% battery Corresponding to battery voltage	times
8-1370	放电状态 40%电量对应电压 值	137V 此处填入 1370 , 扩大十倍 In 137v set 1370, expand 10
	Discharging status 40% battery	times

**Corresponding to battery
voltage**

9-1420 放电状态 **60%**电量对应电压 **142V** 此处填入 **1420** , 扩大十倍
值 In 142v set 1420, expand 10
Discharging status 60% times
battery

**Corresponding to battery
voltage**

A-1460 放电状态 **80%**电量对应电压 **146V** 此处填入 **1460** , 扩大十倍
值 In 146v set 1460, expand 10
Discharging status 80% times
battery

**Corresponding to battery
voltage**

B-1520 放电状态 **100%**电量对应电 **152V** 此处填入 **1520** , 扩大十倍
压值 In 152v set 1520, expand 10
Discharging status 100% times
battery

**Corresponding to battery
voltage**

C-0300 电量表满量程阻尼时间, 单 **300** 表示 **300** 秒阻尼
位: 秒 300 means 300 sec deboost
Coulomb-meter full power

deboost time:

seconds/unit

D-1250 充电状态 **0%**电量对应电压值 **125V** 此处填入 **1250** , 扩大十倍

Charging status 0% In 125v set 1250, expand 10

Corresponding to battery times

voltage

E-1250 放电状态 **0%**电量对应电压值 **125V** 此处填入 **1250** , 扩大十倍

Discharging status In 125v set 1250, expand 10

Corresponding to battery times

voltage

F-0001 充电记忆百分比% 填入 **1** 表示 **1%** 运行中长按 **48s** 可

Charging memory % 清除

Set 1 means 1%, long press 48s

can clear while operating

R0 低电压报警值 预留功能

Low voltage warning value **CY1874D_MB110D** 无此调节

Reserved function

CY18740D_MB110D don' t have

this modification

J - 0030 电量判断时间 **S** 填入 **30** 表示 **30** 秒 ; 上位机在开路

Battery power judge time 电量表头下 , 阻尼位置填写。

Set 30 means 30 seconds.

Enter the parameter setting interface, the static display 0-0420, in this state short press it then will jump to the next parameter 1-0420, long press to enter the numerical change, low 1Hz flashing, short flashing plus 1,0-9 cycle; long Press the blinking bit to move to the left, the most significant bit is set to modify, then press "0" to set the state, the static display 0-0420, short press to switch to 1-0420 and so on;

If the voltage change exceeds the value set by the rate of change of power, the pointer will be updated to the new value after the time is greater than the maximum time, otherwise the current position will remain unchanged; if the voltage change is smaller than the value set by the rate of change of power, The pointer is updated directly to the new value.

J-0030 interface and then press the button to exit the entire setting operation; instrument automatically run according to the new parameters.

If only modify the speed ratio, the speed ratio is modified, jump to the 1-0420 interface, the instrument directly power off and then restart, the use of new parameters to run.

进入参数设置界面时，静态显示 0-0420，此状态下短按跳到下一个参数 1-0420，长按则进入数值修改，低位 1Hz 闪烁，短按闪烁位加 1,0-9 循环；长按闪烁位左移一位，最高位设置修改完毕后长按，跳出“0”设置状态，静态显示 0-0420，短按切换到 1-0420 以此类推；

若在电量判断时间内，若电压变化超过电量变化率所设值，则在时间大于最大时间后指针更新到新值，否则保持当前位置不变；若电压变化小于电量变化率所设值，则指针直接更新到新值。

J-0030 界面下再短按则退出整个设置操作；仪表自动按照新参数运行。

若只修改车速速比，则车速速比修改完毕，跳转到 1-0420 界面时，仪表直接断电再重启，则使用新参数运行。

B、累计清零设置 密码：8810

Total reset setting password 8810

显示内容	定义	相关说明
display content	definition	Notes
P-0000	密码操作界面	P-8810 进入累计设置界面
	Password operate surface	P-8810 enters the total setting surface
000000	累计自动清零	显示 1 秒后退出，仪表正常运行
	Total auto reset	Esc after shows 1 seconds, the speedometer run normally

C、累计数值设置 密码：6810

Total reset setting password 6810

显示内容	定义	相关说明
display content	definition	Notes
P-0000	密码操作界面	P-6810 进入累计设置界面
	Password operate surface	P-6810 enters the total setting surface
xxxxxxx	累计数设置	自由设置，小计自动清零；

Total value set

Free setting, Auto clear