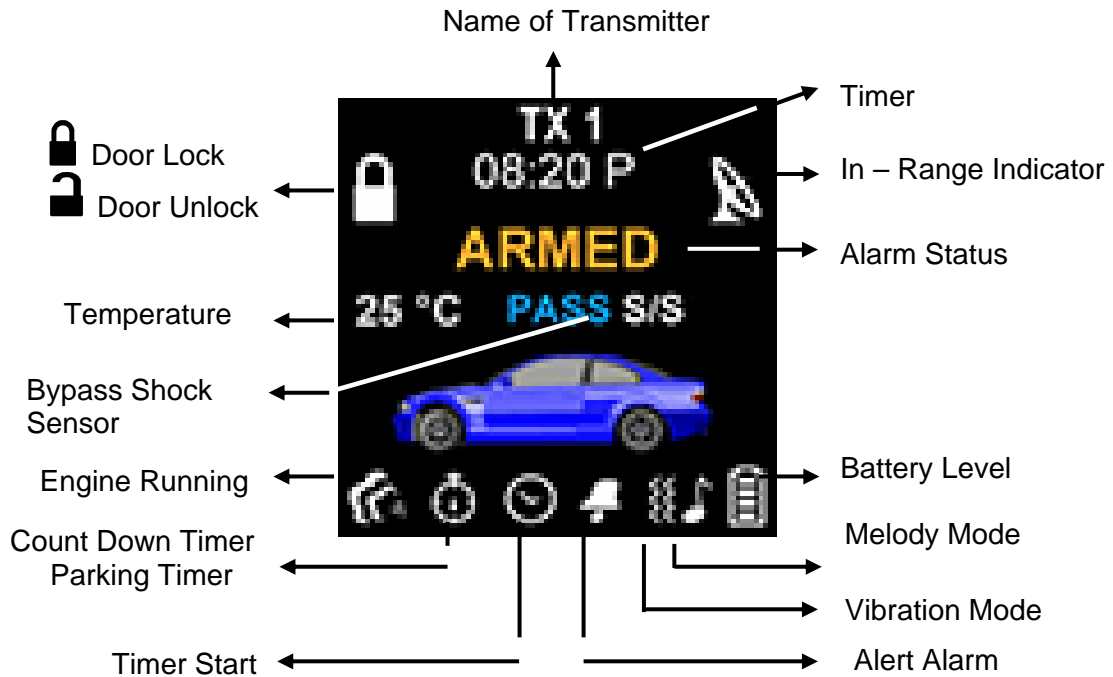



**MODEL XRO-9100
REMOTE ENGINE STARTER
WITH ALARM SYSTEM
OWNER'S MANUAL**

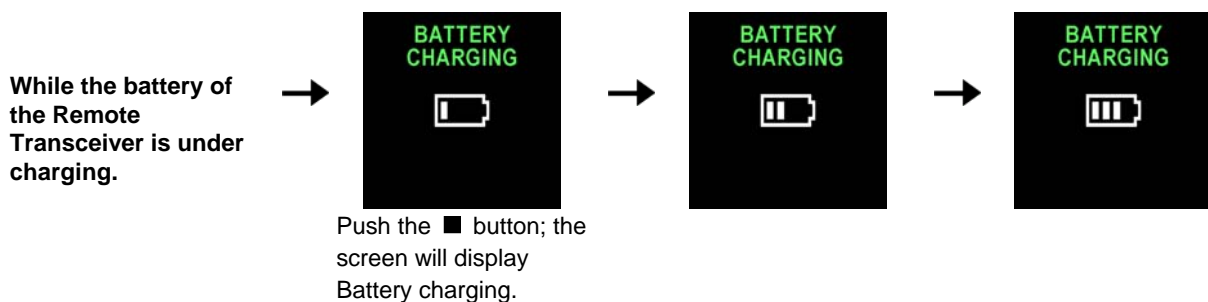
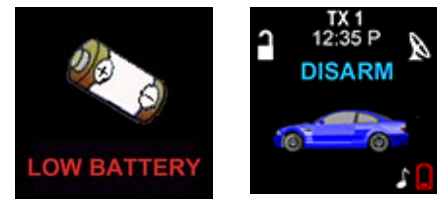
REMOTE TRANSCIVER (TX)

A. OLED DISPLAY



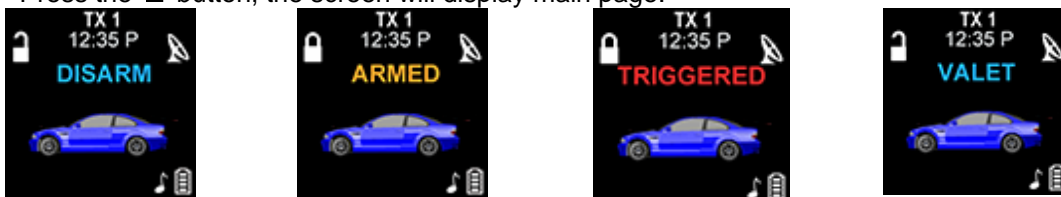
B. CHARGE THE BATTERY

Power by built-in 3.7V lithium polymer battery, if the OLED screen display low battery or  is flash, charge your remote transceiver. While the battery of the Remote Transceiver is under the battery charging, you can push the "■" button to check charging condition.



C. MAIN PAGE:

1. Press the ■ button, the screen will display main page.

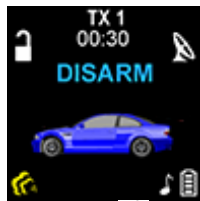


2. While the icon flashing on the OLED screen, press the ■ button, the OLED screen will display the detail of the flash icon, the display sequence of flash icon as follows: TRIGGERED / ENGINE RUNNING / COUNT DOWN TIMER / TIMER START / ALART TIMER condition.



While the **TRIGGERED** icon flash.

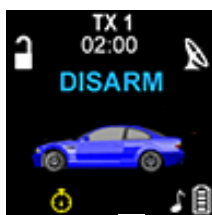
Push the button to display triggered area.



While the icon flash



Push the button



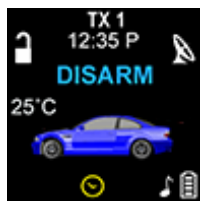
While the icon flash



Push the button, the count down timer will display.



Press the button **2** to set off the count down time



While the icon flash

missing graphic →



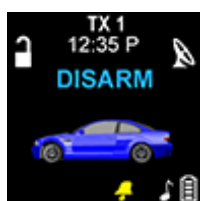
or



Or



Push the button, the OLED screen will display individually i.e. daily start timer, timer start or temperature start, depend on which you selected.



While the icon flash



Push the button, the alert alarm time will display.



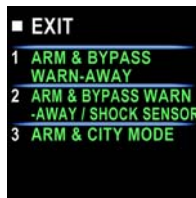
Press the button **2** to set off the alert alarm timer

D. SELECT THE TRANSCIEVER'S BUTTON CONFIGURATION:

1. Spin up the Switch to select the transceiver button configuration you need and the OLED screen will display the transceiver button configuration you select.
 2. Within 5 seconds press the button **1**, **2**, **3** or **4** to remote control "button configuration" you selected.
- Note: If 5 seconds of inactivity expired, or push the button, the transceiver button configuration mode will exit.



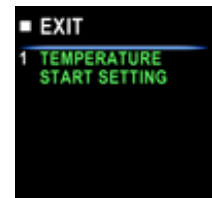
Spin up the \uparrow switch to the page 1



Spin up the \uparrow switch to the page 2



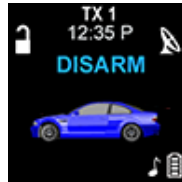
Spin up the \uparrow switch to the page 3



Spin up the \uparrow switch to the page 4



Spin up the \uparrow switch to the page 5

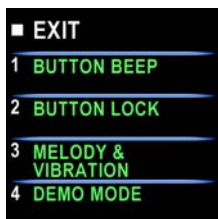


Spin up the \uparrow switch resume to main page.

E. SELECT THE TRANSCIVER FEATURES:

1. Spin down the \downarrow Switch to select the transceiver feature you need and the OLED screen will display the features you select.
2. Press the button 1, 2, 3 or 4 once within 3 seconds after finished selection and the OLED screen will change the display alternatively.

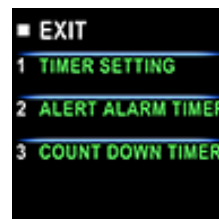
Note: If 5 seconds of inactivity expire, or push the \blacksquare button, the transceiver features program mode will exit.



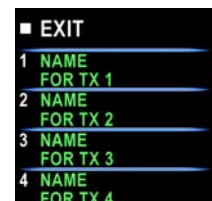
Spin down the \downarrow switch to the page 1



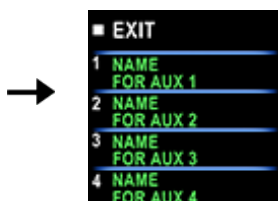
Spin down the \downarrow switch to the page 2



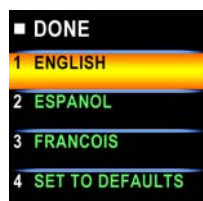
Spin down the \downarrow switch to the page 3



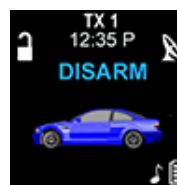
Spin down the \downarrow switch to the page 4



Spin down the \downarrow switch to the page 5



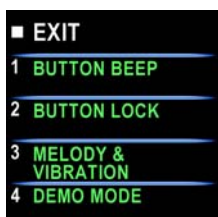
Spin down the \downarrow switch to the page 6



Spin down the \downarrow switch resume to main page.

E-P1- 1. "BUTTON BI" SETTING: Example: Set the "Button Bi Disable".

It has a short "bi" sound while pressing the button of the remote transceiver



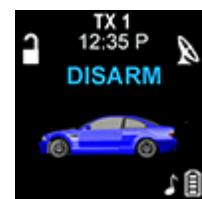
Spin down the \downarrow switch to the page 1



Press the button 1 and it will display previously setting

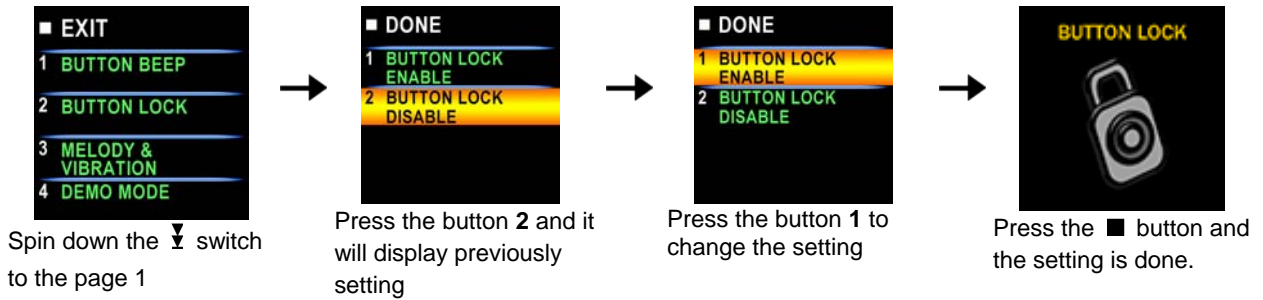


Press the button 2 to change the setting

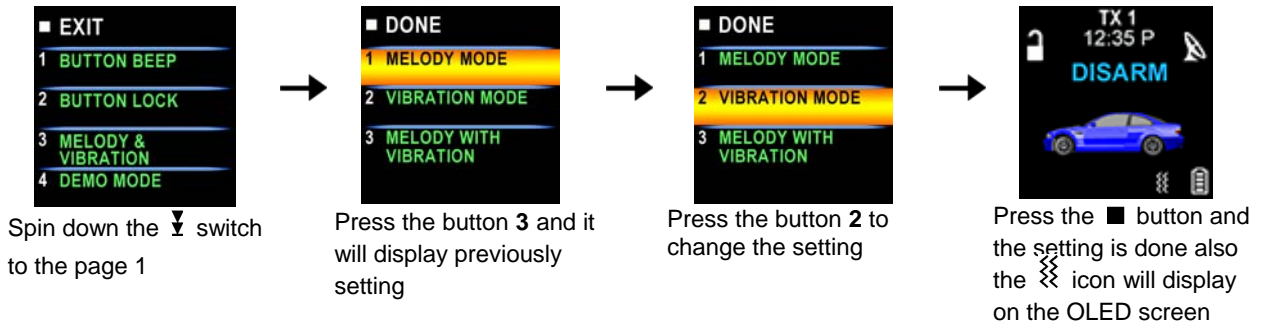


Press the \blacksquare button and the setting is done.

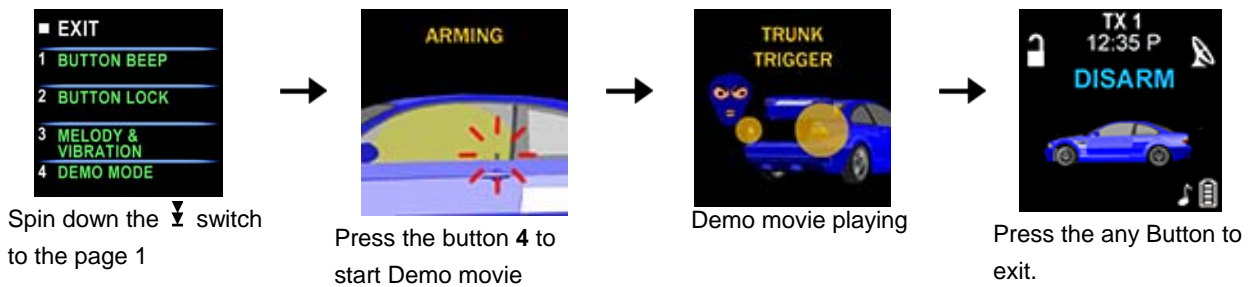
E- P1- 2. “BUTTON LOCK” SETTING: Example: Set the “Button Lock Enable”.



D- P1- 3. “MELODY / VIBRATION MODE” SETTING: Example: set the Vibration mode.

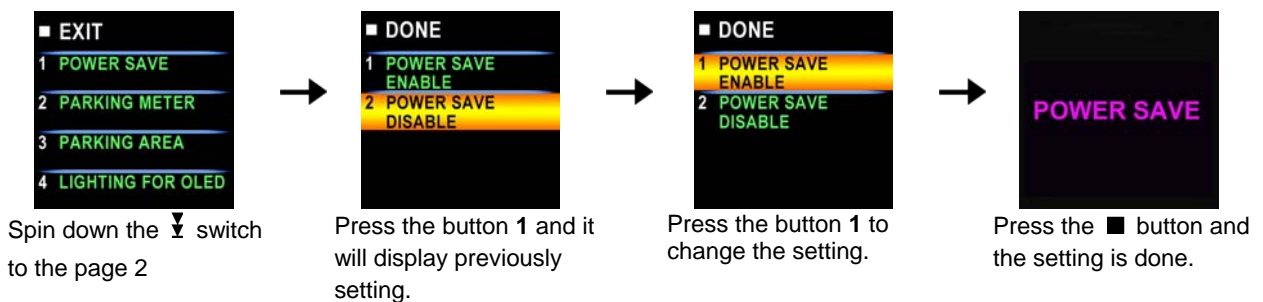


E- P1- 4. “DEMO MODE”:



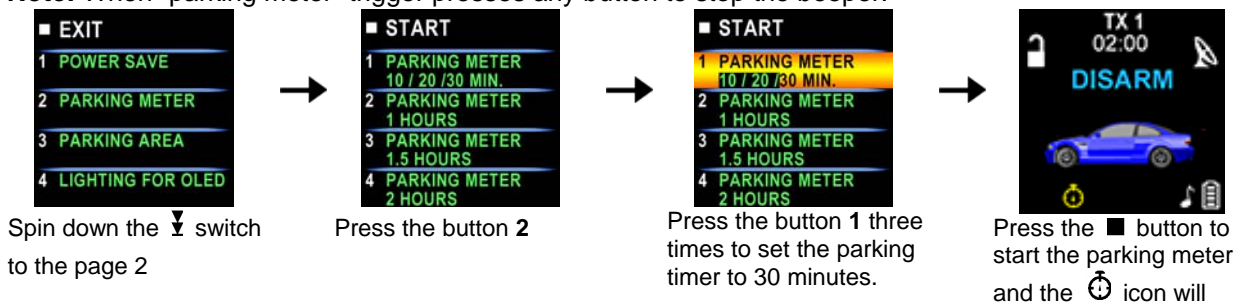
E- P2- 1. “POWER SAVE” SETTING: Example set the “Power Save Enable”.

While the power save mode, the LCD remote transceiver uses “0” current to save the battery power.



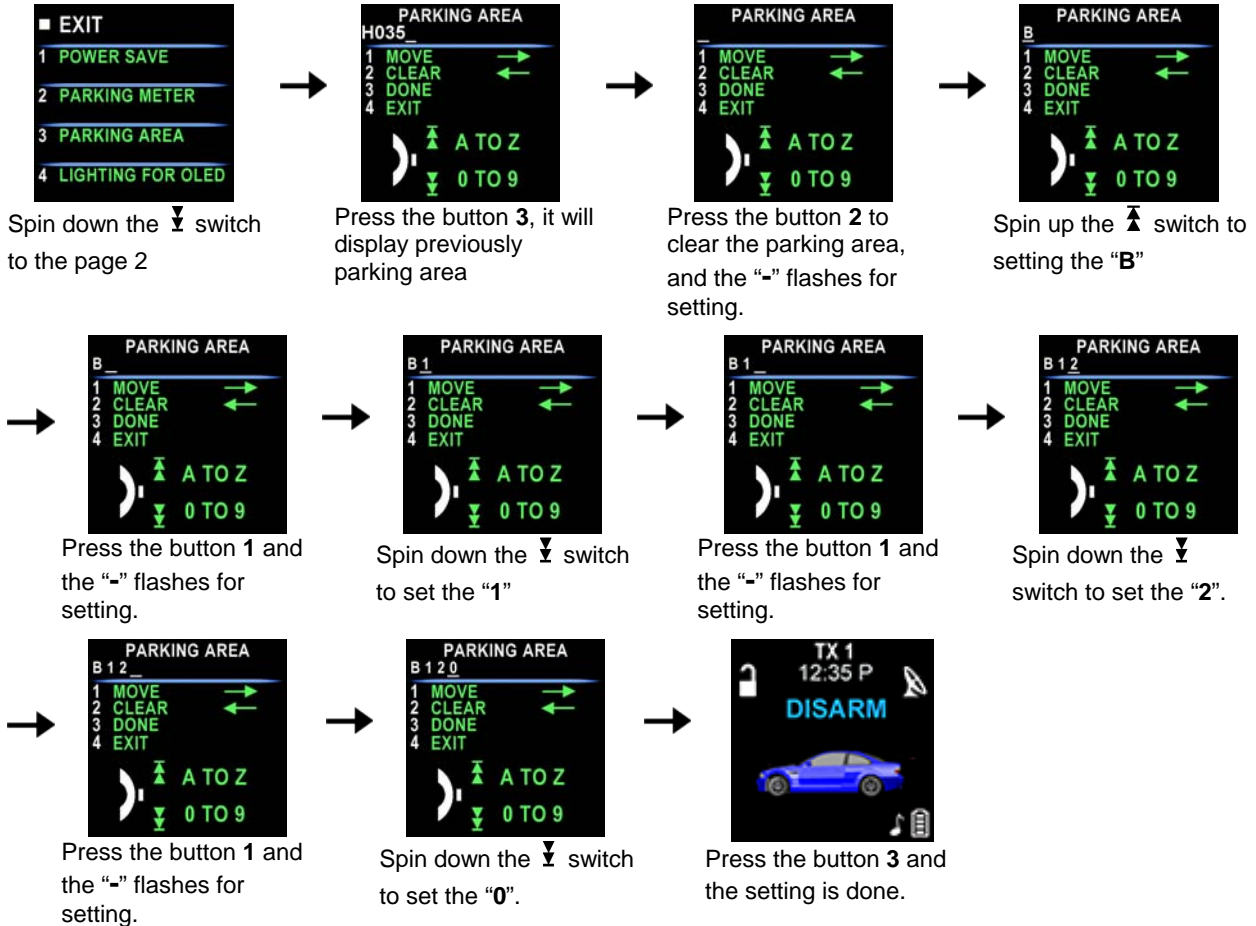
E- P2- 2. “PARKING METER” SETTING: Example set the “Parking Meter 30 min..”

Note: When “parking meter” trigger presses any button to stop the beeper.

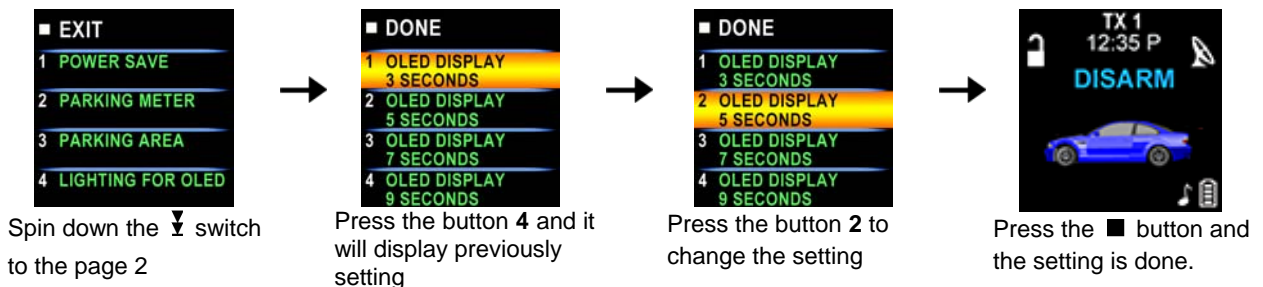


flash on the main page.

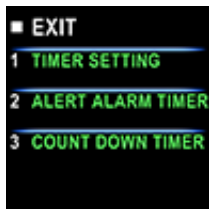
D- P2- 3. “PARKING AREA” SETTING: Example set the “Parking Area.” to “B120



D- P2- 4. “LIGHTING FOR OLED” TIMER SETTING: Example: set the LCD display from 2 seconds to 3 seconds.



D- P3- 1. “TIMER” SETTING: Example set the timer to **08:20P**



Spin down the ▼ switch to the page 3



Press the button 1 and the "hour" digit flashes for adjusting.



Press the button 2 to set the "hours" digit to "08"



Press the button 1 and the "minute" digit flashes for adjusting.



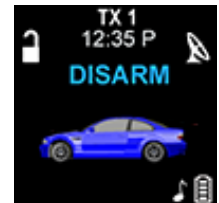
Press the button 2 to set the "minute" digit to "20"



Press the button 1 and the "A" digit flashes for adjusting.



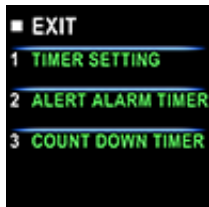
Press the button 2 to set the "P"



Press the button 3 and the setting is done.

D- P3- 2. "ALERT ALARM TIMER" SETTING: Example set alert alarm timer to 06:30A

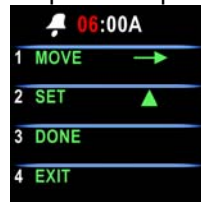
Note: When alert alarm timer trigger press any button to stop the beeper.



Spin down the ▼ switch to the page 3



Press the button 2 and the "hour" digit flashes for adjusting.



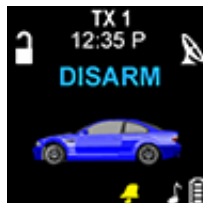
Press the button 2 to set the "hour" digit to "06".



Press the button 1 and the "minute" digit flashes for adjusting.



Press the button 2 to set the "minute" digit to "30".



Press the button 3 to set the alert alarm timer and the 🔔 icon will flash on the main page.



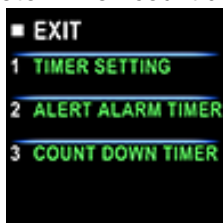
Push the ■ button While the 🔔 icon is flashing or When alert alarm timer trigger, the screen will display alert alarm timer



Press the button 2 to set off the alert alarm timer or press any button to stop alarm while alert alarm timer trigger

C- P3- 3. "COUNT DOWN TIMER" SETTING: Example set the count down timer to 2:30

Note: When count down timer is trigger, press any button to stop the beeper.



Spin down the ▼ switch to the page 3



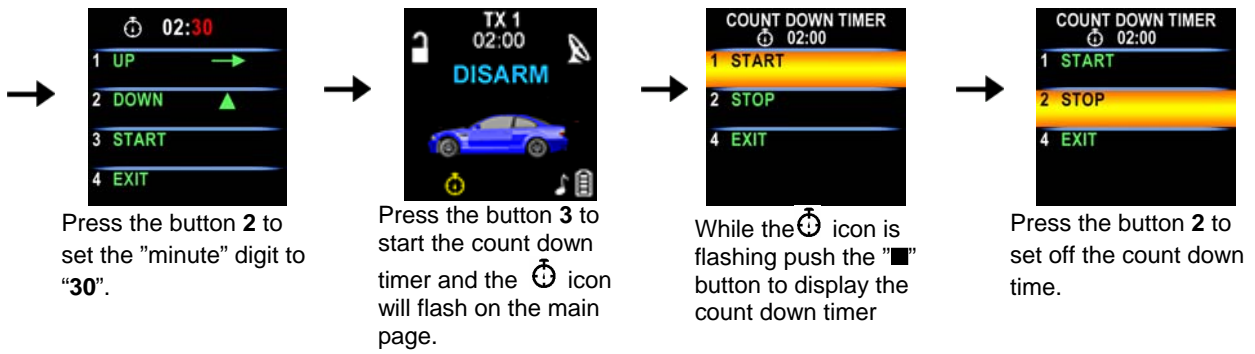
Press the button 3 and the "hour" digit flashes for adjusting.



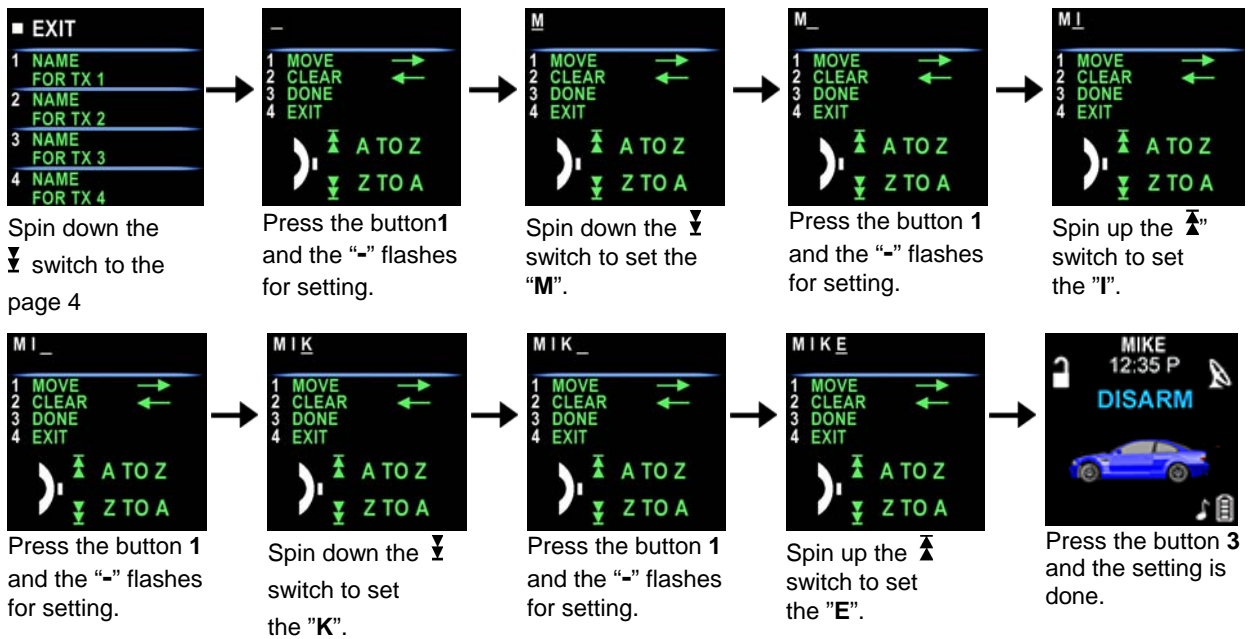
Press the button 2 to set the "hour" digit to "02"



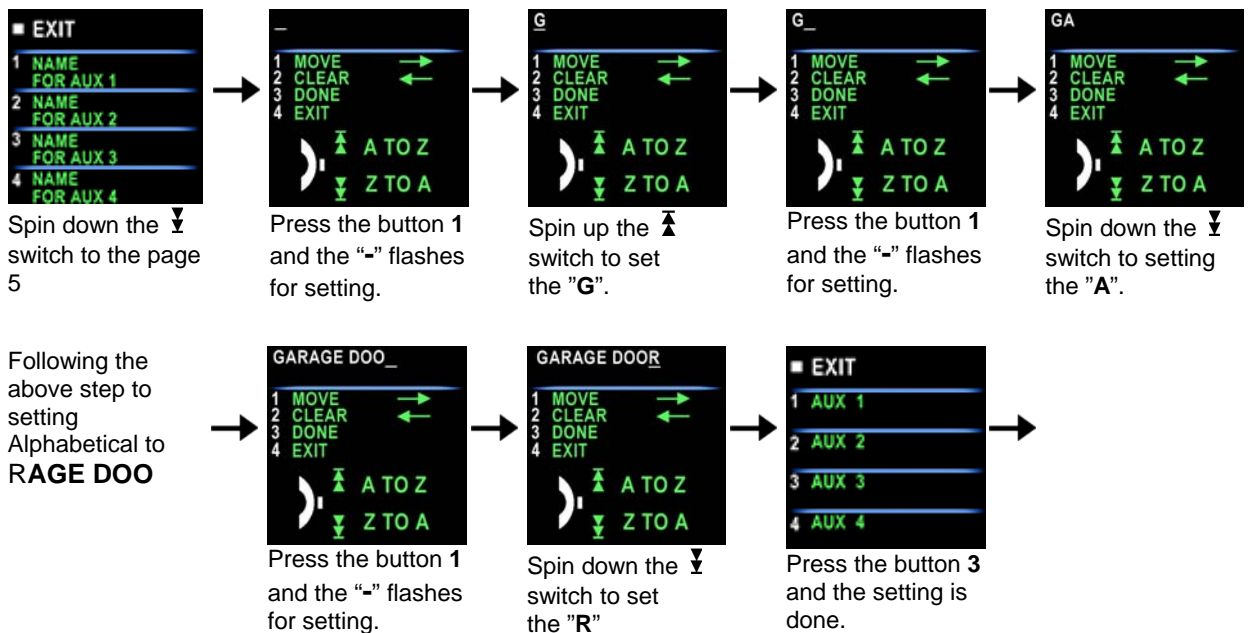
Press the button 1 and the "minute" digit flashes for adjusting.



D- P4- 1. "NAME OF TX " SETTING: Example Set Name of Transceiver 1 to MIKE




D- P5- 1. "NAME OF CHANNEL " SETTING: Example Set Name of channel 4 to GARAGE DOOR



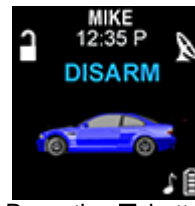
D- P6- 1. LANGUAGE SETTING: Example set the Language to **English**




Spin down the  switch to the page 6




Press the button 1 to set the Language to "ENGLISH".

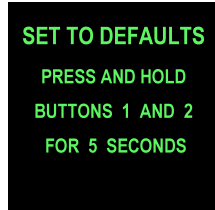


Press the  button and the setting is done.

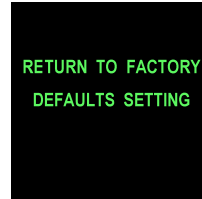
D- P6- 4. SET TO DEFAULTS:



Spin down the  switch to the page 6



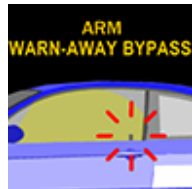
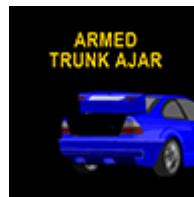
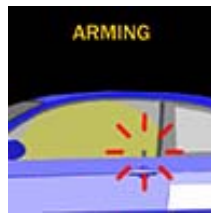
Press the button 4.



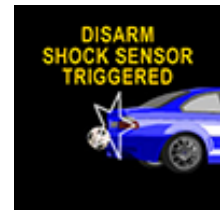
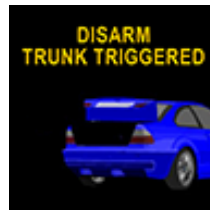
Press the button 1 & 2 at same time to set the defaults.

OPERATION:

ARMING



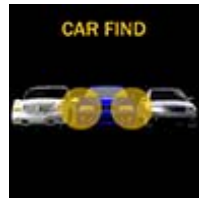
DISARMING



VALET MODE



CAR LOCATOR



PANIC FUNCTION



TRIGGER THE SYSTEM
SINGLE TRIGGER



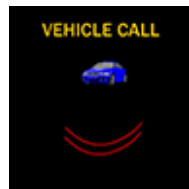
MULTI TRIGGER



ANTI CAR-JACKING FORM POSSE PORT



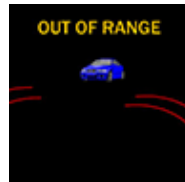
DRIVER PAGING



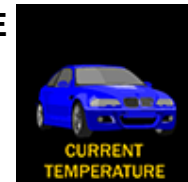
TRUNK RELEASE



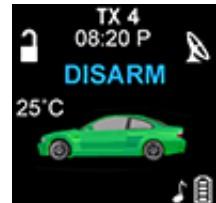
OUT OF RANGE



TEMPERATURE CHECK



MULTI-VEHICLE SECURITY OPERATION



TURBO TIMER MODE



REMOTE START



TIMER START



TEMPERATURE START



DAILY TIMER START



TURN OFF THE REMOTE START



Model XRO-9100

SELECTABLE FEATURES

The selectable features can be set manually as explained below,

Factory default settings are indicated by bold text.

Note : The method of manual override can either be selected to operate from the valet switch or operate as custom code.

Be certain to place a check mark indicating the method used in the box located on the last page of the owner's manual.

NOTE: Keyless Entry Models with no horn output will Flash the Parking Lights instead of chirp where chirp is indicated.

RF Programmable Feature Bank 1 Is For Transmitter Programming See Transmitter Programming Guide.

RF Programmable Features Bank 2 Is Alarm Selectable Features:

| <u>Feature Selection</u> | <u>1 Chirp</u> | <u>2 Chirps</u> | <u>3 Chirps</u> | <u>4 Chirps</u> | <u>5 Chirps</u> | <u>6 Chirps</u> |
|--------------------------|-------------------|----------------------|--------------------|-----------------|-----------------|-----------------|
| 1st Door L/UL | 1 Sec. | 3.5 Sec. | 1 Sec L, Dbl.U/L | Dbl L, 1 Sec UL | Dbl L, Dbl UL | 1 Sl/350ms UL |
| 2nd Accy Lock | Auto Lock On | Auto Lock Off | | | | |
| 3rd Accy. UI | Auto UL Dr. | Auto UL ALL | Auto UL Off | | | |
| 4th Headlights | On Arm | On Disarm | On Both | Off | | |
| 5th Passive Locks | Passive | Active | | | | |
| 6th Pass/Act Arm | Passive Arm | Actime Arm | | | | |
| 7th Siren/Horn | Siren/Horn | Siren Only | Horn Only | | | |
| 8th Horn Chirp | 10 ms | 16 ms | 30 ms | 40 ms | 50 ms | |
| 9th O/R Method | Custom Code | Valet | | | | |
| 10th 2 Step U/L | On Arm | Off | | | | |
| 11th Chp Del Tx | On Arm | Off | | | | |
| 12th Volts/HdWire | Not Available | | | | | |
| 13th Trigger Circuits | Not Available | | | | | |
| 14th L/UL Poll | Not Available | | | | | |

To exit program mode, turn ignition off, or press and release valet switch.

RF Programmable Features Bank 3 Is Remote Start Selectable Features :

| <u>Feature Selection</u> | <u>1 Chirp</u> | <u>2 Chirps</u> | <u>3 Chirps</u> | <u>4 Chirps</u> | <u>5 Chirps</u> | <u>6 Chirps</u> |
|--------------------------|--------------------------|------------------------|-----------------|-----------------|-----------------|-----------------|
| 1st Defrost Output | Pulsed | 10 Mins | | | | |
| 2nd RF Start Chirp | Off | On | | | | |
| 3rd Run Time | 5 Mins | 10 Mins | 15 Mins | 20 Mins | | |
| 4th Parking Lights | On Steady | Flashing | | | | |
| 5th Input Check | Voltage | Tach | DBI Tach | | | |
| 6th Voltage Level | >0.5V B4 Start | <0.5V B4 Start | | | | |
| 7th Ing. 2 Select | Off During Crank | On During Crank | Same Aas Accy. | | | |

| | | | | | |
|----------------------------|--------------------------|------------------------|--|-----------|-----|
| 8th Ign. 3 Select | Off During Crank | On During Crank | Same Aas Accy. | | |
| 9th Diagnostics | Off | On | | | |
| 10th Crank Time | 0.8 Sec | 1.0 Sec | 1.5 Sec | 2.0 Sec | |
| 11th Gas / Diesel | Gas | Diesel 10 | Diesel 15 | Diesel 20 | DBI |
| 12th Transponder O/P | While R/S On | During Start | Until Ign. Off | | |
| 13th Temp Start | Off | On | | | |
| 14th Crank Averaging | Averaging | Preset Time | (NOTE:When Averaging, the engine must be started 4 times with the key to be effective) | | |
| 15th R/S Shock | Shunt Until Clear | Shunt R/S Cycle | Shunt From TX | | |
| 16th Turbo Select | Off | 3 Mins | 5 Mins | 10 Mins | |
| 17th Black /Blue (Aux O/P) | Single Pulse | As Feature #1 | | | |

Note : Once you enter the feature programming mode, do not allow more than 15 seconds to pass between steps or the programming will be terminated.

| Chirp | Function |
|----------|--------------------|
| 1 chirp | Arm |
| 2 chirps | Disarm |
| 3 chirps | Arm/ Door opened |
| 4 chirps | Disarm / Intrusion |







| Parking light | Function |
|---------------|----------------------|
| 1 flash | Arm |
| 2 flashes | Disarm |
| 3 flashes | Disarm / Intrusion |
| Constant On * | Under Remote Start * |

| LED | Function |
|----------------|--------------------------------|
| Off | Disarmed |
| Slow Flash | Armed |
| Rapid Flashing | PassiveArming/ Active Rearming |
| On (Solid) | Valet Mode |

| LED | Function |
|------------------|----------|
| 1 flash... pause | Zone 1 / |
| 2 flash... pause | Zone 2 / |
| 3 flash... pause | Zone 3 / |
| | |
| | |

* Depend on programming feature select

| Transmitter Button | System Function | Remark |
|--------------------|---|-----------------------------|
| | Lock Doors & Arm System / Button | |
| - | Defeat the Pre-detect stage of s/s | |
| - - | Defeat the Pre-detect and full detect stages of s/s | |
| - - - | City Mode | |
| or (3-second) | Activate Panic function | Press and Hold for 3 sec. |
| or (3-second) | Stop Panic function | Press and Hold for 3 sec. |
| (2-second) | Silent Arming | Activate during programming |
| (2-second) | Silent Disarming | |
| | Unlock Doors & Disarm System / Button 2 | |
| - | Two Steps Door Unlock & Disarm System | Press twice within 3 sec. |
| | Trunk Release | Press and Hold for 2 sec |
| * - * | Turn Off Remote Start | Press twice within 2 sec. |
| * - * | Turn On Remote Start | Press twice within 2 sec. |
| * | Channel 1 | |

| | | |
|---|------------------------------------|--------------------------------|
|  | Channel 2 | |
|  | Channel 3 | |
|  | Channel 4 | |
| 2-WAY OLED REMOTE CONTR TRANSCEIVER OPERATION ONLY | | |
|  | Button Function Selection | For Two way Remote transceiver |
|  | Confirm Button / Back to Main Page | For Two way Remote transceiver |
|  | Feature Selection | For Two way Remote transceiver |

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- . Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver.
- . Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- . Consult the dealer or an experienced radio/TV technician for help.

FCC Caution :To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

To satisfy FCC RF exposure compliance requirements, this device should be used in hand-held, hand-operated configurations only. The device and its antenna must maintain a separation distance of 20cm or more from a person's body, except for the hand and wrists, to satisfy RF exposure compliance.

This device is designed to be used in a person's hands and its operating configurations do not support normal transmissions while it is carried in pockets or holsters next to a person's body.