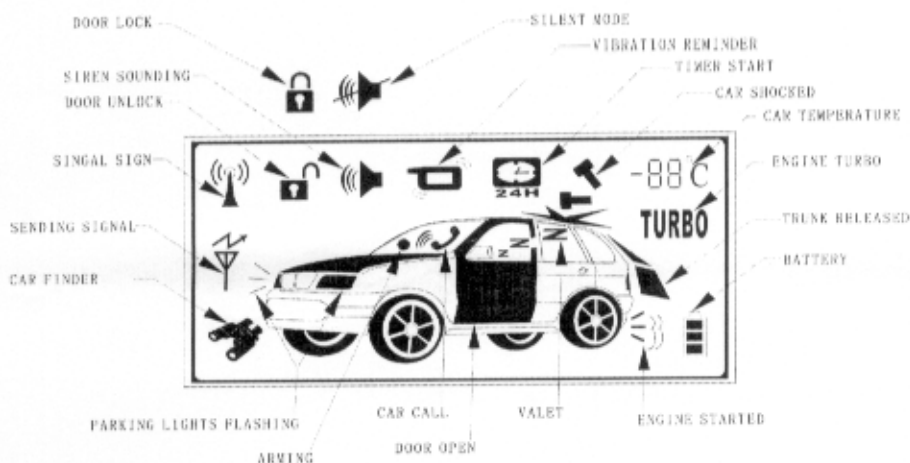




Portman Security System International Co., Ltd.

PORTMAN LCD 2-WAY REMOTE STARTER CAR ALARM AM-8020

SF80-AM8020P



T38 LCD

REMOTE CONTROL FUNCTION

Button	Functions	Conditions
1	a. Arm and lock doors b. Car finder with sound c. Stop alarm temporarily d. Remote lock doors	Disarmed and ACC OFF Armed Sounding While driving
1 for 2 sec.	Close windows and arm	Not armed
2	a. Disarm and unlock doors b. Remote unlock doors c. Stop alarm temporarily	Armed and ACC OFF While driving Sounding
3	b. Silent arming c. Car finder without sound d. Enter Anti car-hijacking	Disarmed and ACC OFF Armed While driving
3 for 2 sec.	Exit Anti car-hijacking	In anti car-hijacking mode
1+2	Remote Panic	Anytime but valet mode
1+3	TURN ON/OFF background light	Anytime
1+3 for 2 sec	Enter/Exit VALET MODE	Disarmed and ACC ON
1+4 for 2 sec	Enter/Exit TURBO mode	Anytime
2+3	Remote trunk release	Anytime
2+4	Timer Start booking ON/OFF	Timer Start booking
4 for 2 sec	Remote Engine Start	
1+4	Turn ON/OFF vibration display (only T38H) *reserved option	Anytime

Remark: a. Please refer the above table and the following operating instructions for all functions.
b. Use Hopping code for transmission.
c. When pressing buttons of T18A, please press more than 0.5 seconds.

CODE LEARNING

- When in disarmed mode, turn ACC ON, press Valet Switch 10 times within 8 seconds, siren will chirp 3 times, system will enter code-learning mode.
- Press any key on the transmitter, the siren will chirp accordingly for confirmation as soon as the transmitter is learned. For example, if the first transmitter is learned, the siren will chirp once. If the second transmitter is learned, the siren will chirp twice, etc...Up to 3 transmitters can be programmed.
- If one of the transmitters is programmed, the other transmitters must be reprogrammed within 8 seconds. Turn ignition OFF or 8 sec later, system will exit code-learning mode.

ARMING

- Press button 1.
- Siren will chirp once.
- The doors will be locked after 0.5 sec or 3.5 sec. (see function selection 1)
- Parking lights will flash once.
- LED will flash slowly (If the doors aren't closed properly and the system can't enter arming mode completely, siren will chirp 5 times. If the trunk isn't closed properly, siren will chirp 6 times and parking lights will flash 6 times. If the bonnet isn't closed properly, siren will chirp 4 times and parking lights will flash 4 times, then the sensor can't be triggered and LED flashes quickly.)
- After 3 seconds, all the sensors are armed. If the alarm is triggered within 3 sec, the siren will chirp twice and the circuit will be by-passed. Alarm will rearm by itself only when the sensor is stable for 2 sec.

AUTO WINDOWS CLOSING/OPENING

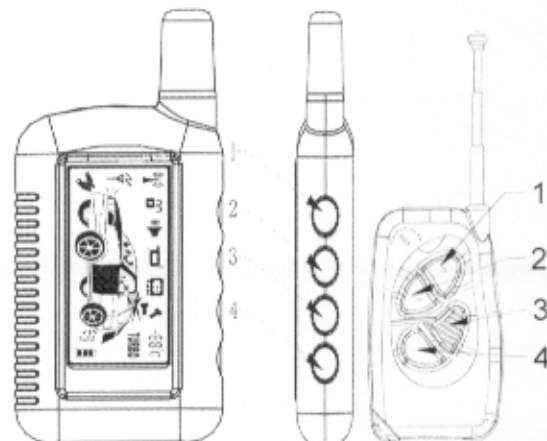
Press button 1 for 2 sec, the windows will be closed automatically. At any time.

DISARME

- Press button 2.
- Siren will chirp 3 times, parking lights will flash 3 times. If siren chirps 4 times and parking lights flash 4 times, which means the alarm has been triggered during arming state. (In silent arming mode, siren will not chirp, only parking lights will flash)
- Doors will be unlocked after 0.5 sec or 3.5 sec (see function selection 1), LED will flash quickly.
- Dome light will be ON for 30 sec, and will be OFF when ACC ON.
- If the door is opened, LED will be OFF, the dome light is turned ON.

SILENT ARMING

- Press button 3.



T38

T38

T18

- Parking light will flash once.
 - Doors will be locked after 0.5 sec or 3.5 sec. (see function selection 1)
 - LED will flash slowly. (If doors are not closed properly and the system can't enter arming mode completely, parking lights will flash 5 times, if the trunk isn't closed properly, parking lights will flash 6 times, if the bonnet isn't closed properly, the parking lights will flash 4 times, which indicate that sensor will be by-passed, LED will flash quickly.)
 - Disable Engine starter.
 - After 3 seconds, all the sensors are armed. If the alarm is triggered within 3 sec, parking light will flash 2 times, and the circuit will be by-passed. Alarm will rearm by itself only when the sensor is stable for 2 sec.
- LAST DOOR ARMING WITH/WITHOUT DOOR LOCK(FUNCTION SELECTION 4,5)**
- If ACC is OFF, the last door is opened and closed, alarm will enter arming mode automatically after 30 seconds with door lock/unlock.
 - When not choosing LAST DOOR ARMING function, the siren will chirp twice for warning 10 sec after the door is closed. If choose LAST DOOR ARMING function, the siren won't chirp.

ENVIRONMENTAL PROTECTION ALARM MODE

In armed mode, if the shock sensor is triggered, siren will sound and parking lights will flash for 30 sec; if the ACC is triggered, siren will continue sounding and parking lights will continue flashing. If other parts are triggered, siren will sound and the parking lights will flash for 3 circles. (One circle is 30 sec), then the siren will not sound and parking lights stop flashing, but the engine will remain disable. If the sensor is stable for 3 sec, the system will return to arming mode.

REARMING (FUNCTION SELECTION 6,7)

After disarming, if door is not opened or ignition remains OFF position, 30 sec later, the system will be rearmed with door locked or unlocked.

EMERGENCY DISARMING CODE SETTING (ORIGINAL PRESET CODE: PRESS VALET SWITCH 5 TIMES WITHIN 8 SEC)

When ACC OFF and disarmed, press button 2 once and turn ACC ON within 10 sec. Then press the valet switch at set-up value or factory preset value within 8 sec, at the 8th sec, siren will chirp 4 times, which indicates the system enters emergency disarming code setting mode:

- Press valet switch with the numbers (1-9) you prefer to within 10 sec, the siren will chirp once when the switch is pressed once. Turn ACC OFF, siren will chirp to indicate the value you entered.
- If over 9 times or replaced value is "0", this setting is failed. If there are no chirps after entering the value, which shows the setting is failed too.

EMERGENCY DISARMING

Turn ignition ON, press the valet switch at set value within 8 sec (factory preset value is 5) siren will chirp 4 times to indicate that the system is disarmed.

AUTO DOOR LOCK CONTROL (FUNCTION SELECTION 4)

- Close the door, start the engine, when stepping the foot-brake once, the doors will be locked automatically.
- When ignition is ON, press button 2 to unlock doors and press button 1 to lock doors.
- Turn ignition OFF, the doors will be unlocked automatically.

VALET MODE

- When ACC ON, press valet switch one time for 3 sec. The two processes should be finished within 8 seconds.
- 8 seconds later, system enters VALET mode; LED will be constantly ON even ACC OFF.
- In VALET mode And ACC OFF: siren will chirp twice and parking lights will flash twice when locking the door, and siren will chirp three times and parking lights will flash three times when unlocking the door.
- Exit VALET mode: when ACC ON, press valet switch one time for 3 sec. LED will be OFF soon. The two processes should be finished within 8 seconds.
- To enter or exit valet mode: Turn ignition ON, press 1+3 for 2 sec.

PANIC

- Press button 1+2. The siren will sound, parking lights and dome light will flash for 30 seconds
- Press button 1 or 2 to stop the panic.

CAR FINDER

- The system is armed.
- Press button 1: siren chirp once, parking lights flash 8 sec.
- Press button 3: car finder in silent mode: parking lights will flash 8 sec.
- Press button 2 to exit car finder.

TIMER MODE:

Press button 2+4 enter or exit timer mode, if the parking light flash four times to enter timer mode and the T38H will display 24H, if exit timer mode the T38H will no display.

OPEN DOOR WARNING (FUNCTION SELECTION 9)

When ACC ON and the door is opened, parking lights will flash 1 min for warning. Parking lights will stop flashing upon the door is closed.

ANTI CAR-HIJACKING (FUNCTION SELECTION 3)

- When ACC ON and doors are closed, press button 3 once, and open the door within 8 sec to activate anti car-hijacking mode.
- System will enter anti car-hijacking mode after closing the door, and 30-second countdown starts.
- After 30 seconds, siren will sound once for every 2 seconds, 20 seconds later, siren will sound continuously and parking lights will flash continuously.
- Siren will stop sounding & parking lights will stop flashing when ACC OFF. After ACC OFF, engine is not able to start again (if kill starter relay connected).
- Disarm the anti car hijacking: Press button 3 for over 2 seconds when ACC ON or OFF. Siren will chirp 4 times for notification. Or apply the emergency override procedure.

RPM LEARNING MODE

- When disarmed, turn ignition ON.
- Press valet switch 6 times within 10 sec, the siren will chirp once to indicate that system has entered the RPM learning mode.
- Start the engine, when the RPM level is stabilized, press the valet switch for 2 sec, the LED will be ON for 2 sec, the siren will chirp twice, which indicates the RPM learning has been operated successfully.

TURBO

Press button 1+4 at the same time for 2 seconds, there will have a sign of TURBO on T38H transmitter. When start booking with TURBO mode selected, engine will continue running for 2 min when ACC is turned from ON to OFF, and engine will stop running immediately if step foot brake or release hand brake.

REMOTE START

- Press button 4 for 2 seconds, the function is activated.
- Then system will automatically start self-checking procedure: if everything is OK, the engine will be started. If car can not be started and system will indicate the problem by chirp and flash:
 - If foot brake isn't released: siren chirps 3 times, parking lights flash 3 times.
 - If hood ON: siren chirps 4 times, parking lights flash 4 times.
 - If hand brake isn't pulled up: siren chirps 6 times, parking lights flash 6 times.
- When the engine is started successfully, the starter will be off at once (tachometer check type), after 2 sec, parking lights will flash or ON constantly and air-conditioner will be turned ON at the same time if air-conditioner is ON already. The remote starter will run for select 12 min, 24min, 60 min. Meanwhile, if the door is opened in arming mode, the engine stops the siren will sound immediately. When in disarmed mode, the engine won't stop and the siren won't sound.
- If the engine is not started at the first time, the system will allow 3 time's trials.
- If the driver wish to drive the car while in warm-up process, press button 2 to unlock door, turn ACC ON, then the car can be driven.

REMOTE TRUNK RELEASE

Press button 2+3 to release trunk at any time.

EEPROM MEMORY FUNCTION

System will memorize the preset code and the conditions when the power is cut off.

2-STAGE SHOCK SENSOR

- If car is lightly knocked once, siren will chirp once and parking lights will flash once for warning. And T38H will sound bi-po, bi-po for reminder.
- If the car is knocked again within 8 seconds, siren will sound and parking lights will flash for 30 seconds. And T38H will sound wo-wo-wo continually for reminder.
- If car receives a heavy knock, system will be triggered immediately. Siren will sound and parking lights will flash for 30 sec. And T38H will sound wo-wo-wo continually for reminder.

ADDITIONAL TRIGGER SENSORS

Other trigger sensor can be added to the system to enhance security. Ultrasonic sensor (UL-100), microwave sensor (MW-100) or glass breakage sensor (GS-100). Please refer to your installer for more details.

FUNCTION SELECTION

The function selection is programmable. Please follow the procedures:

- Disarm the system.
- Turn ignition ON.
- Press Valet switch 7 times within 8 sec. After 8 seconds, the siren will chirp once.
- Turn ignition OFF, then the LED will flash slowly.
- Press the valet switch with the function numbers you would like to change (Siren will chirp once when pressing the valet switch once). Press button 1 siren will chirp one or press button 2 the siren will chirp two times one chirp means preset value, two chirps mean variable value. All the progress must be finished within 30 sec or turn ACC ON to exit function selection mode.
- For other function selection, please press valet switch (if you first press valet switch 2 times change program #2 and you want to change program #4 then press valet switch 2 times to select program #4).

FUNCTION SELECTIONS	PRESET VALUE (press button 1) CHIRP	VARIABLE SET-UP (Press button 2) 2 CHIRPS OR 3.....
1. LOCK/UNLOCK TIME	0.5 SEC	3.5 SEC
2. IGNITION ON WITH/WITHOUT DOOR LOCK	DOOR LOCK	DOOR UNLOCK
3. ANTI-CAR HIJACKING	ON	OFF
4. AUTO ARMING	ON	OFF
5. AUTO ARMING WITH/WITHOUT DOOR LOCK	DOOR LOCK	DOOR UNLOCK
6. RE-ARMING	ON	OFF
7. RE-ARMING WITH/WITHOUT DOOR LOCK	DOOR LOCK	DOOR UNLOCK
8. VALET MODE	ON	OFF
9. DOOR OPENED WARNING	ON	OFF
10. REMOTE START CHECK	Engine checking on	Engine checking off *

11. RPM/VOLT CHECK	TACHOMETER CHECKING TYPE	VOLTAGE CHECKING TYPE
12. REMOTE START PARKING	FLASHING PARKING LIGHT OUTPUT	CONSTANT PARKING LIGHT OUTPUT
13. Remote start high/low check	High voltage check level	Low voltage check level
14. Anti-grind on/off select	Anti-grind on	Anti-grind off
15. Crank time	0.6 sec (1)	0.8s(2), 1.0s(3), 1.2s(4), 1.4s(5), 1.6s(6), .8s(7), 2.0s(8), 4s(9)
16. TIMER START	24 H (1)	12H(2), 8H(3), 4H(4), 2H(5)
17. WARM UP TIME	12 MIN(1)	24 MIN(2), 60MIN(3)
18. DEFAULT	PRE SET VALUE	*

- LOCK/UNLOCK TIME FOR 0.5s OR 3.5s
- IGNITION ON LOCK DOOR ON/OFF
- ANTI-CARHIJACKING ON/OFF
- AUTO ARMING ON/OFF
- AUTO ARMING WITH DOOR LOCK ON/OFF
- AUTO REARMING ON/OFF
- AUTO REARMING WITH DOOR LOCK ON/OFF
- VALET MODE ON/OFF
- IGNITION ON DOOR OPENED WARNING ON/OFF

10. ENGINE CHECK ON/OFF: In the default setting the remote start will monitor either the vehicle's tach wire or voltage depending on the programming of Feature 11#. If programmed off, the vehicle will crank for the programmed crank time (Feature 15#) and will not verify with tach or voltage that the vehicle is running. In the off setting, if the vehicle fails to start, the ignition can stay on for the entire run duration. Using tach or voltage check is always recommended if possible.

11. TACH WIRE SENSE/VOLTAGE SENSE: If the tachometer signal wire is used, this feature must be left in the default (tach wire connected) setting. If programmed to the voltage sense setting, the unit will crank the starter for a preset time that can be programmed in Feature 15#. Once the starter has been engaged, the system will check the voltage level to verify the engine is running. The threshold for the voltage level test can be programmed in Feature 13#. When using voltage sense mode, connection of the H3/5 WHITE tachometer input is not necessary.

12. PARKING LIGHTS FLASHING/CONSTANT: In the default setting, the unit will flash the vehicle's parking lights while remote started. The constant setting will turn the parking lights on solidly for the entire run duration.

13. VOLTAGE CHECK LEVEL HIGH/LOW: This feature only functions when feature 11# is programmed to voltage sense. Some vehicles have many accessories, which are turned on when remote started. In these vehicles, the variation of voltage between the engine off and the vehicle running is very slight and the remote start unit may "think" the vehicle has not started. This can cause the remote start to shut down after the vehicle has been started. If this is the case, program this feature to the LOW position.

14. ANTI-GRIND ON/OFF: With the anti-grind on (default) the ground-when-armed output will be active during remote start operation. If accessories such as a voice module or window module are added to the unit, it may be necessary to program this feature off.

15. CRANK TIME 0.6/0.8/1.0/1.2/1.4/1.6/1.8/2.0/4.0: If Feature 11# is programmed to the voltage sense setting, the crank time must be set to the appropriate duration. The default setting is 0.6 second. If a different crank time is desired, select Feature

16. Timer mode program time : 24Hour, 12Hour, 8Hour, 4Hour, 2Hour

17. RUN TIME 12/24/60 MINUTES: This feature controls how long the engine will run before it "times out" and shuts down. Programmed to the default setting the engine will run for 12 minutes.

18. Preset value

J1: ON: ARMING FUNCTION OFF: NO ARMING FUNCTION
J2: ON: SIREN OUTPUT OFF: HORN OUTPUT

LED STATUS

- In armed mode, the LED flashes slowly 1 time/sec.
- In arming mode, if the sensor is by-passed, LED will flash quickly 2 times/sec.
- If the alarm is triggered, the LED will flash quickly 2 times/sec.

CAR CALL

Knock slightly at the Car Call on the windshield to call the driver, T38H transmitter will sound for reminder. After receiving signals, press any button on the transmitter, the siren will chirp 6 times for confirmation.

Note :

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

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

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment