

Exhibit E

User's Manual

MAXWELL CO., LTD.

FCC ID.: N4VMXT251

CAR ALARM (TRANSMITTER)

SM5100BPA OPERATIONAL MANUAL

	NORMAL CODE
NS	HOPPING
ND	NEW HOPPING

(K2MA1)

BUTTON ① : A. Arm ————— press again to disarm
 B. Keep press 2" ————— panic (press again to off)
 C. When ignition on ————— door lock/unlock

BUTTON ② : A. Remote 1st aux. output
 B. When arming ————— keep press 2" to car finder
 C. Keep press 2" ————— remote 3rd aux. output(continuous)
 D. When arming within 5" ————— keep press 2" to option sensor bypass
 E. When ignition on ————— keep press 2" to anti-car jacking

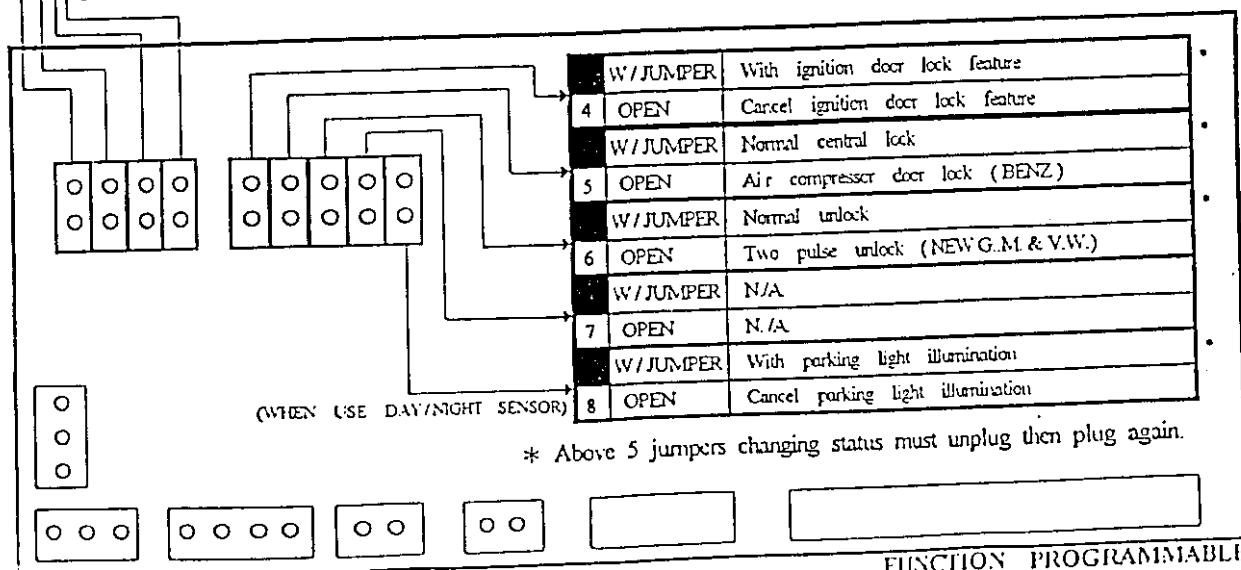
BUTTON ①+② : A. Chirp defeat arm / Chirp defeat disarm
 B. Keep press 2" ————— remote 2nd aux. output(continuous)
 C. When arming within 5" ————— keep press 2" to all sensor bypass
 D. When ignition on within 5" ————— keep press 2" to valet mode
 (Repeat normal procedure return to normal function)

CODE HOPPING TRANSMITTER :

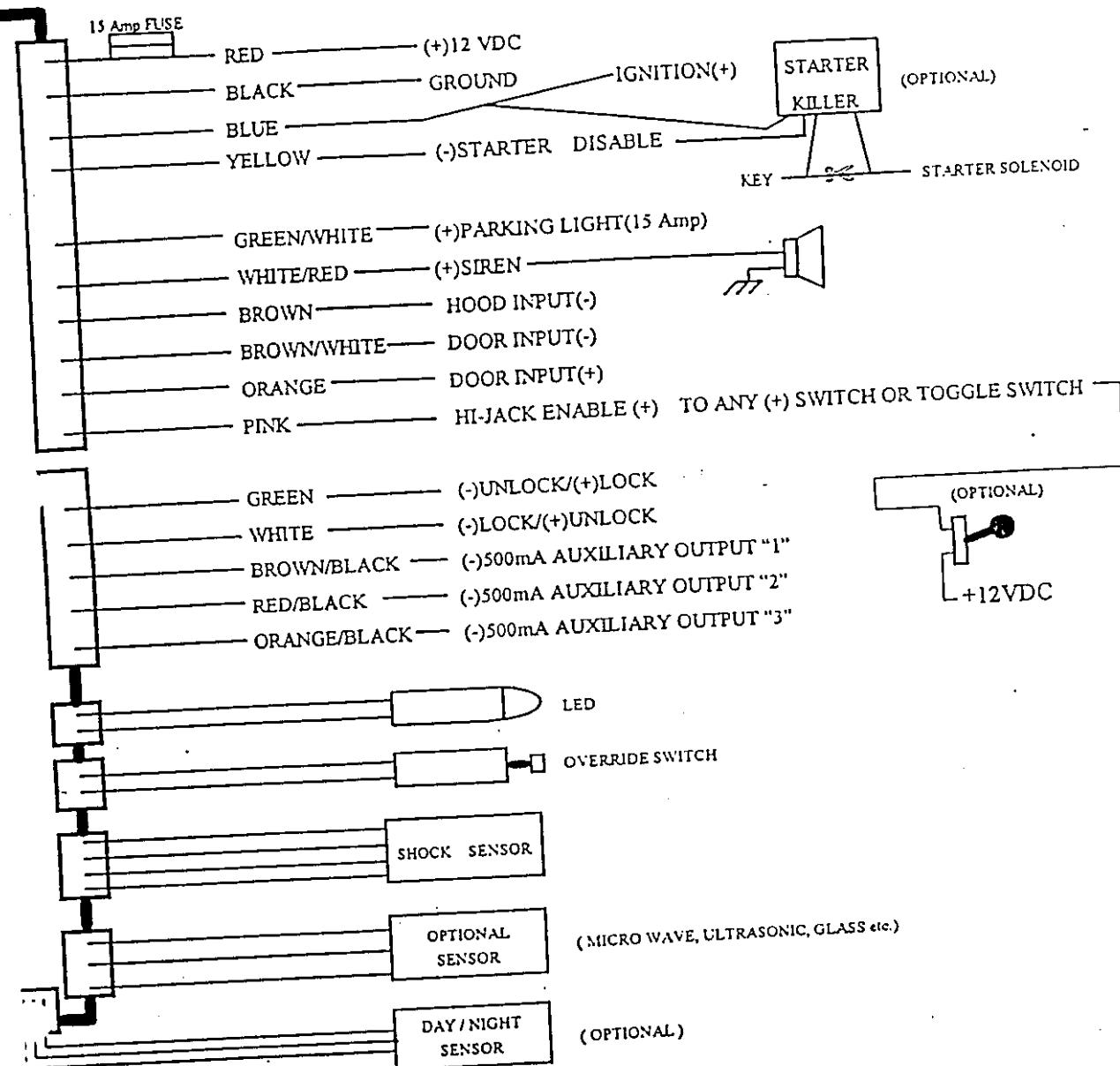
If battery dis-connection or change battery might cause to dynamic code change.
 User must press any button 3 times in 5 seconds to let this system re-works.

@ Button ①+② press within 5 seconds during arming , parking lights flash 3 times, shock & option sensor temporary no function until disarm & arm again (become normal again)

W/JUMPER	With current sensor
0 OPEN	Delete current sensor
W/JUMPER	With last door arming feature
1 OPEN	Cancel last door arming feature
W/JUMPER	Door lock during last door arming
2 OPEN	Without door lock during last door arming
W/JUMPER	For normal car, door sensor alert when arm
3 OPEN	For dome light delay car, door sensor delay alert until dome light off



SM5100BP WIRING DIAGRAM (F1WA) (HI-JACK)



How to use the "Code Learning"

How to use the "Code Learning"

a. Ignition on, press over-ride switch 5 seconds until siren chirps 5 Time, Parking lights on means system in Code Learning mode.

b. Press any button of new transmitter for learning, Siren chirps 2 Time means waiting for 2nd new transmitter to learn.

c. Press any button of 2nd new transmitter for learning, Siren chirps 3 Time means waiting for 3rd new transmitter to learn.

d. Same procedure maximum up to 4 transmitters.

e. If within 10 seconds no new transmitter's signal send out for learning, System turn to normal state.

f. Every time learning new transmitter, Former code(old transmitter)will be erased, Hence old transmitter must also learn again When new transmitter need to learning.

Special Feature of SM Serial A Type Alarm

1. Code Learning

Main box will learn code from transmitter, maximum up to 4 codes.

2. Anti-scanning

CPU of alarm receiving correct code may not respond immediately unless continuously more code have been confirmed. This conservative attitude keep the system not disarmed by a scanner, so called 'anti-scan'.

3. Up-grade to code hopping

All those system can be upgraded to 'code hopping' to offer better protection at a little more cost (SMXXXX → SMXXXX-N0).
Of course, this special request must demand before alarm production.

4. Arm condition memory

When arming, cut off power supply from battery, alarm still keep memory of arming, whenever power is on again, alarm trigger immediately, siren blow, parking lights flash, starter killer (ignition killer) still in arm status. When in normal status, power off then on again, alarm still in normal status, never cause trouble in maintenance garage.

5. Arm/Disarm

When alarm arming, central lock is locked, starter killer standby, LED flashes slowly, alarm will be triggered whenever the car is hit or intruded. After trigger, the parking lights flash and siren blows (shock sensor 20 seconds, door sensor 30/60 seconds)

When disarm, siren chirp twice, parking lights flash twice, LED off, Starter killer reset, central lock unlocked.

6. Panic

Hold button ① for over 2 seconds, panic mode will be activated. Siren keeps chirping and parking lights flash until user press button ① again to turn off the panic mode.

7. Anti-car jacking (by transmitter)

When ignition on, press anti-car jacking button for over 2 seconds. Parking lights flash twice, i.e. the car is entering into anti-jacking mode. 30 seconds later, siren chirps every 2 seconds for 10 times to pre-warn user. Then siren blow, parking lights flash, starter disable (or ignition disable), until ignition off. Siren and parking lights stop but starter is still disable unless press anti-car jacking button again.

8. Optional sensor bypass

When arming with in 5 seconds, press button optional sensor bypass for over 2 seconds, parking lights flash 3 times means optional sensor by pass. Optional sensor trigger temporary eliminate (Door & Shock sensor trigger still work) until alarm were disarmed and armed again. This feature is used when the user try to avoid alarm noise disturbing the neighborhood.

9. All sensor bypass (Shock & Optional Sensor)

When arming with in 5 seconds, press button all sensor bypass for over 2 seconds. parking lights flash 3 times means all sensor by pass. Shock & Optional Sensor trigger temporary eliminate (Door sensor trigger still work) until alarm were disarmed and armed again. This feature is used when the user try to avoid alarm noise disturbing the neighborhood.

10. Chirp defeat arm/disarm

Press the transmitter to arm or disarm. If siren chirps once and twice, might cause noise in silent area. This feature offers arm and disarm without chirps but other features remain the same.

11. Car finder

Siren chirps once, parking lights flash 6 times to show car position.

12. Remote valet mode (keyless entry)

When ignition on with in 5 seconds, press button valet mode for over 2 seconds, the parking lights will flash 3 times, Means the alarm system is off, but the function of locking, unlocking, Auxiliary output remain working. This is called valet mode.

When ignition on with in 5 seconds, press button valet mode for over 2 seconds again, siren will chirps 3 times meaning the alarm turns back to normal function.

13. Security re-arm

Alarm arms again 30 seconds after disarm unless the doors have been opened or engine is ignition on. This feature is to avoid mis-touched or mis-disarmed.

14. Smart chirps (Tamper memory)

If door has been opened and closed during arming, when user disarm the alarm, siren chirps 4 more sounds. (2 sounds + 4 sounds)

15. Zone by pass

When door sensor keep triggering for over 5 minutes (door keep open or hood sensor defect), the alarm siren and parking lights will stop working until the signal off.

If signal on again, door sensor (hood sensor) remain working. During Zone by pass, the starter killer will still work to protect the car.

16. Smart LED

Arming - LED slow flashing

Disarm - LED off

Door intrusion when arming - LED quick flashing

Valet mode - solid on

17. 2 stage disarm

Normal arming - press disarm button, alarm disarm.

During alarm was triggering - press disarm button, alarm stop triggering but remain in arm condition, user re-press disarm button again to disarm.

18. 2 stage shock sensor (optional)

Light touch - one long chirp only (warn away)

Heavy touch - siren blow over 20 seconds

19. Current sensing (programmable/optional)

Main box can sense door opening or ignition on (starter cranking) from current sensing by voltage drop down . This feature also can be eliminated (programmed by a jumper) when installer connect door sensor, this feature become unnecessary.

20. Last door arming (programmable)

Ignition off, door open and closed. 30 seconds later, alarm arming passively, this feature is programmable by a mini-jumper.

21. Door lock during last door arming (programmable)**22. Available for dome light delay car or normal car(programmable)**

Normal car - Door sensor alert in 5 seconds after arming.

Dome Light delay car - Door sensor delay detecting until dome light off.

This feature programmed by a jumper, decided by installer.

23. Ignition safety door lock/unlock (Programmable)

5 seconds after ignition has been turned on, the doors will be locked passively for safety reason and unlocked when ignition turned off, but within 5 seconds if the door is opened, this 'safety door lock' feature will be canceled to avoid someone being locked out.

24. Air compressor central lock (programmable)

Some cars that are equipped with air compressor central lock, such as Benz, Audi and VW etc. need a little longer signal for central locking system. This alarm cut off red loop or remove one jumper can become long signal for lock.

25. Two pulse unlock (programmable)**26. Disable relay position (programmable)**

The on-board disable relay can be programmable to be normal close type (Relay normal close when drive) or normal open type (Relay normal open when drive) also D-Connector must follow N/C position or N/O position .

27. Parking light illumination (programmable/optional)**28. Auxiliary 1st output (-) for trunk opening or remote engine start**

Auxiliary 1st output (-) (2nd channel output) send 500mA ground signal to remote engine starter through brown/black wire.

29. Auxiliary 2nd output (-) (continuous) / 2nd stage unlock output (-)

Auxiliary 2nd output (-) (3rd channel output) send 500mA ground signal through red/black wire.

30. Auxiliary 3rd output (-) (continuous)/Dome light supervision (-) (illuminate)

Auxiliary 3rd output (-) (4th channel output) send 500mA ground signal through orange/black wire.

Dome light 500mA(-) output connect with a relay to dome light. When alarm disarm, dome light on until alarm arm again or ignition on or automatically off after 30 seconds.

31. Auxiliary 4th output (-) (pulse)/Pager output(-)/Window roll up output(-)/Horn honk output(-)

Auxiliary 4th output (-) (5th channel output) send 500mA ground signal through yellow/black wire.

Pager output (-) can be connected to alarm pager to become 2 way service.

32. Special anti-car jacking by optional switch

This system offer a special anti-car jacking for some country that people needs it. If driver press an optional toggle switch when car ignition is on and car door is opened and closed again, this system will come into anti-car jacking mode. 1 minute later, siren chirps per 2 seconds for 10 chirps (20 seconds), then siren blow, parking light flashes, starter killer (ignition killer) on until ignition off. At that time, the siren and parking lights off, but starter killer (ignition killer) still works, only over-ride switch can over-ride it.

33. Two car system (only transmitter with switch have this feature)

When using transmitter with slide switch, this system can be used as 2 cars system.

For example, push switch forward, let transmitter code be learned by 'A' car, then move switch backward, let transmitter code be learned by 'B' car. This transmitter can control 'A' car and 'B' car by changing slide switch position.

34. Over-ride switch

4 Functions of the over-ride switch

- A. Ignition on, press over-ride switch to over-ride alarm when in arming.
- B. Ignition on, keep pressing 5 seconds to enter code learning mode.
- C. Ignition on to press over-ride to reset special hi-jacking.
- D. Ignition on, press 5 times to enter valet mode.

35. Parking lights relay built-in

36. Disable relay built-in

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