

MOTORCYCLE & VEHICLES ALARM REMOTE CONTROLLED

For professional use only
MODEL: KA-600M

Operation & Installation
Manual

Köpel



For professional use only



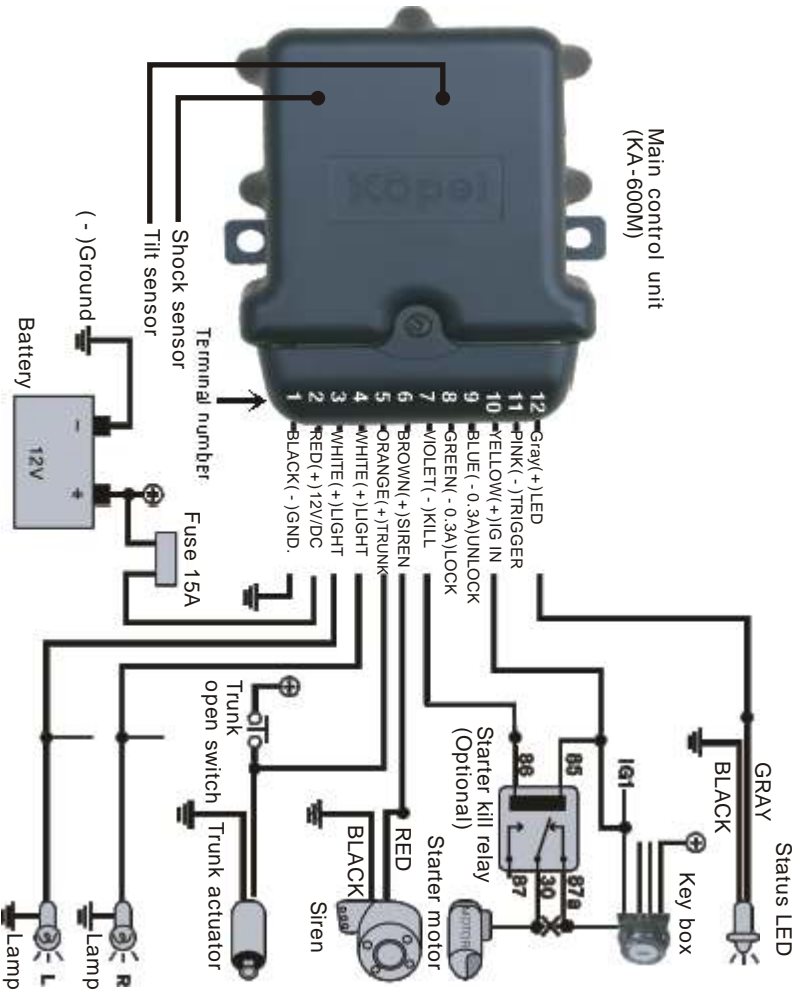
REMOTE CONTROLLED ALARM

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Wiring diagram



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



1. Summary

This system(KA - 600M)is operated by microprocessor and is included shock sensor and tilt sensor in main control unit. And so it's compact and is perfectly operated. Also it is suited to install not only motorcycle but also vehicles to through waterproof and perfect design.

2. Features

- | | |
|--|--|
| 1. Compact microprocessor control module | 16. Delete shock sensor from remote |
| 2. Perfect waterproof design | 17. 30 seconds siren duration with automatic reset |
| 3. Multi - function 4 button transmitter | 18. Automatic siren OFF(10 times output) |
| 4. Remote control arming/disarming | 19. Status LED |
| 5. Audible and visual arming/disarming | 20. Starter disable output(Optional) |
| 6. Remote control panic operation | 21. Negative trigger input(For vehicles) |
| 7. Automatic rearming | 22. Door lock/unlock(Option for vehicles) |
| 8. Chirp or no chirp confirmation by remote | 23. Operation voltage 12 Volts |
| 9. Built - in flashing lights relay | 24. Current consumption under 5mA |
| 10. Remote control trunk release | |
| 11. Built - in Dual stage Shock sensor | |
| 12. Built - in Tilt sensor | |
| 13. Adjustable shock sensitivity by remote | |
| 14. Passive/active arming selectable by remote | |
| 15. Compact design piezo siren | |

3. Transmitter Summary Table

Button(No.)	Press button for 1 second	Press button for 2 seconds	
1 	ARM/LOCK	PANIC MODE	
2 	DISARM/UNLOCK	VALET MODE(When ignition key is ON)	
3 	-----	TRUNK RELEASE	
4 * 	SILENT FUNCTION	SHOCK OFF (At arming mode)	SHOCK ADJUSTMENT (When ignition key is ON)
1  + 2 	-----	AUTO REARMING ON/OFF	
1  + 3 	-----	PASSIVE ARMING ON/OFF	

4. Technical specifications

- Operating voltage(Main) : 12V DC.
- Power supply(Main) : 15Amp fuse
- Current consumption : 5.0mA(approx)in armed and standby mode.
- Transmitter battery : 6V (CR2016 X2)
- Transmitter power : 500uV/m
- Main control unit size : 74(W) X 100(L) X 30(H)mm
- Main control unit weight : 100g(approx)
- Transmitter size : 29(W) X 45(L) X 11(H)mm
- Trnsmitter weight : 15g(approx)

MEMO

BLUE (-0.3A)Door unlock Output (Optional)

This wire output (-)0.3A when you operate "DOOR UNLOCK" by the transmitter and this must be connected to (-)signal line of the door unlock switch of the vehicles.

IMPORTANT! The door lock/unlock outputs are low current and should not be attached directly to any high current device; They are only to be used to activate relays.

YELLOW (+)Ignition Input

This wire must be connected to ignition circuit in the ignition key box. When you turn igniton key ON (+)12V will output.

PINK (-)Trigger Input


This wire is preliminary (-)trigger input for additional sensor or door sensing for vehicles.

GRAY (+)Status LED Output

This wire will be connected to gray wire of the status LED. Black wire of the LED must be connceted to (-)ground.

4. Main functions


1)Arming(Door lock)-----Press button 1

Press button 1  for a second to arm with an audible chirp and on hazard light flash. The LED starts to flash and the shock detector and tilt switch are active. Briefly press button 4 of the remote control before pressing button 1 to arm silently.(No chirp)

2)Siren output

If main contril unit sense shock sensor, tilt sensor or key input at the arming mode, siren will output and the lights will flash for 30 seconds. (If the vehicle get a weak shock, siren will instantly chirp 2 times.) If siren is repeated each 30 seconds 10 times, siren and light isn't operate.


3)Disarming(Door unlock)---Press button 2

Press button 2  for a second to disarm with 2 chirps and 2 hazard light flashes.

If automatic rearming is setted, status LED will fast blink.

And the system will be automatically arming if you don't turn the ignition key ON within 30 seconds. Briefly press button 4 of the remote control before pressing button 2 to disarm silently.(No chirp)

4)Trunk release-----Press button 3

Press button 3  for 2 seconds to turnk release with 2 chirps and 2 hazard light flashes. If the system is arm mode, this will change to disarm mode at the trunk release.



5. Convenience Functions

- 1) Silent mode--Press button 4 after press button 1 or button 2
To temporarily turn off the arm or disarm chirps, use silent mode.
If you want this mode, press button 1 or button 2 within 3 seconds after press button 4 one time.
- 2) Shock sensing off---Press button 4 for 2 seconds
To temporarily turn off the shock sensor, use shock sensor off function. If you want use this function, press button 4 for 2 seconds in arm mode.
And then shock sensor will be temporarily off with 2 chirps.
After disarming, shock sensor will normally be operated.
- 3) Panic mode-----Press button 1 for 2 seconds
If you are threatened in or near your vehicle, you can attract attention by triggering the system with your remote control. Just press button 1 for 2 seconds, and you will enter panic mode.
The siren will sound and the lights will flash for 30 seconds and it will automatically off. To stop panic mode press button 1 on the remote control again.
- 4) Valet mode----Press button 2 for 2 seconds(Ignition key = ON)
To turn off the alarm function, use valet mode.
When you turn the ignition on and the press button 2 for 2 seconds, LED will turn on with one chirp.
And LED will go out if ignition key turn off.
In valet mode, the security system will be not arm and convenience functions(Door lock/unlock, trunk release, panic)will operate.

RED (+)12V Input

Connect directly to the positive of the battery. The best location for this connection is where the main battery cable joins the fuse box or key box. Find a wire in this location that is a constant 12V positive.

WHITE (+)Light Flash Output

Connection MUST be made to the positive side of the indicator lights.

ORANGE (+)Trunk Output

When the trunk is operated by the transmitter this wire will output (+)12V for 1 second and this must be connected to outputted (+)line from the trunk open switch of the vehicles.

BROWN (+)Siren Output

Connect to the positive wire(RED) of the siren. Connect the black wire of the siren to (-)chassis ground.

VIOLET (-0.3A)Ground Output When Armed (Optional)

This wire supplies a (- 0.3A) ground as long as the system is armed. This output ceases as soon as the system is disarmed.
The VIOLET wire is pre-wired to control the starter kill relay. Connect a them to the relay after cut off a starter motor or fuel valve wire.

GREEN (-0.3A)Door lock Output (Optional)

This wire output (-)0.3A when you operate "DOOR LOCK" by the transmitter and this must be connected to (-)signal line of the door lock switch of the vehicles.

1. What is included

- Main control box(With harness) - - - - 1
- Transmitter - - - - - - - - - - - - - - 1
- Status LED - - - - - - - - - - - - - - 1
- Parts set for installation - - - - - - - 1
- Manual - - - - - - - - - - - - - - - - 1

2. Before beginning the installation

- Please read this entire installation guide before beginning the installation.
- This system will be operate to DC 12V.
- Main control unit must keep horizon with vehicles for normal operation of the tilt sensor.
- You must install main control unit out of sight at motorcycle installation.
- (-)Chassis ground input line must be noticed contact inferiority because of paint of the vehicles.
- Main control unit must be strongly installed against shock and vibration.

3. Wire connection guide

Terminal number

BLACK (-)Chassis Ground

Connect this wire to a clean, paint - free sheet metal location using a factory bolt that DOES NOT have any vehicle component grounds attached to it.

It is recommended that all security components be grounded at the same location.

5) Passive arming

The function is automatically operated after 30 seconds turn the ignition off. (Factory set = ON) If you want OFF of the passive arming, press button 1 and button 3 simultaneously for 2 seconds.

Then the function becomes OFF with 2 chirps and if you repeat upper operation, the function becomes ON with one chirp.

If you turn ignition key off when this function is ON, LED will fast blink and the system has begun the 30 seconds countdown. After 30 seconds the system will fully arm (Doorlock) itself.

The system will begin the countdown again if negative trigger (PINK WIRE) is inputted within 30 seconds. (If power of the main control unit becomes OFF, passive arming will becomes ON.)

6. Option Functions

1) Disarming without a transmitter (Enter at the valet mode)

If you remote control transmitter is lost or damaged, you can manually disarm your vehicle security system.

To disarm the system without a transmitter, turn from ON to OFF the ignition key 12 times within 25 seconds and then system will be changed to valet mode with 3 chirps. Even if the system is operating and sound the siren, siren will be stopped in valet mode.

If you want arming, cancel the valet by the transmitter or use the transmitter after coding.

2) Transmitter coding (Operation in Valet mode)

If you want transmitter registration, the system must be valet mode. The following is step of the transmitter coding.

SETP1. Turn from ON to OFF to the ignition key 12 times within 25 seconds and then the system will be valet mode with 3 chirps.
STEP2. Turn from ON to OFF to the ignition key 12 times within 25 seconds again and then the system will be transmitter coding mode with 5 chirps. You can transmitter coding to maximum 3 pcs by press button 1 within 5 seconds.

*Registered transmitter code will be stored in memory of the main control unit.

3)Adjustable shock sensitivity---Press button 4 for 2 seconds
(Ignition key = ON)

This is function that shock level of the main control unit is adjusted by the transmitter.

Shock is five - level and setted up to 3 level at the factory.

STEP1. Turn the ignition ON.
STEP2. If you press button 4 for 2 seconds, 3 chirps will output.
STEP3. In order to increase the sensitivity, press button 1.
In order to decrease the sensitivity, press button 2.
You can adjust shock level by the 2 steps above and below.
When you adjust it, you will hear sound of the each step.
Decrease< - - - - - Level 1=1 chirp
Level 2=2 chirps
Level 3=3 chirps(Standard)
Level 4=4 chirps
Level 5=5 chirps - - - - ->Increase

STEP4. After set up a shock level, you must turn the ignition OFF.

*Registered shock level will be stored in memory of the main control unit.

4)Automatic rearming

If automatic rearming is setted, status LED will fast blink.

And the system will be automatically arming if you don't turn the ignition key ON within 30 seconds.(Factory = OFF)

And if you want automatic rearming, press button 1 and 2 simultaneously for 2 seconds. Then the function becomes ON with one chirp and if you repeat upper operation, the function becomes OFF with 2 chirps.

If you disarm the system by the transmitter, LED will fast blink. And if negative trigger(PINK wire) is inputted within 30 seconds, the system will fully disarming itself.

(If power of the main control unit becomes OFF, automatic rearming will becomes OFF.)

5)Starter disable(Optional)

You can use this function when you want engine is not started at the arming. You must install additionally relay for this function.

6)Door lock/unlock at driving

When igniton key is ON the system will not arm and convenience functions(Door lock/unlock, trunk release, emergency siren) will continue to work normally like valet mode.

7)System program reset

This function is for installer.

Turn main contorl unit(Power +12V) OFF and then connect +12V to power wire(RED) and ignition input wire(YELLOW).

And press button 1 within 5 seconds.

Then all program to be setted will reset with transmitter registration.