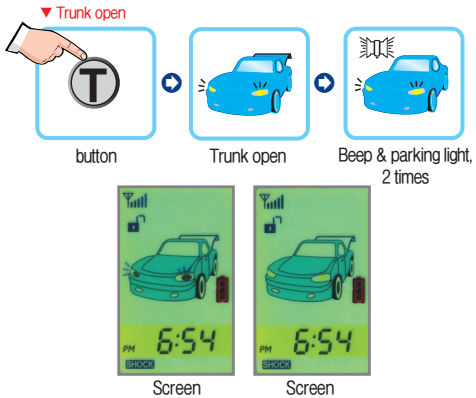
Standard Functions

3) Trunk release: press Ⓣ button for 2 seconds.

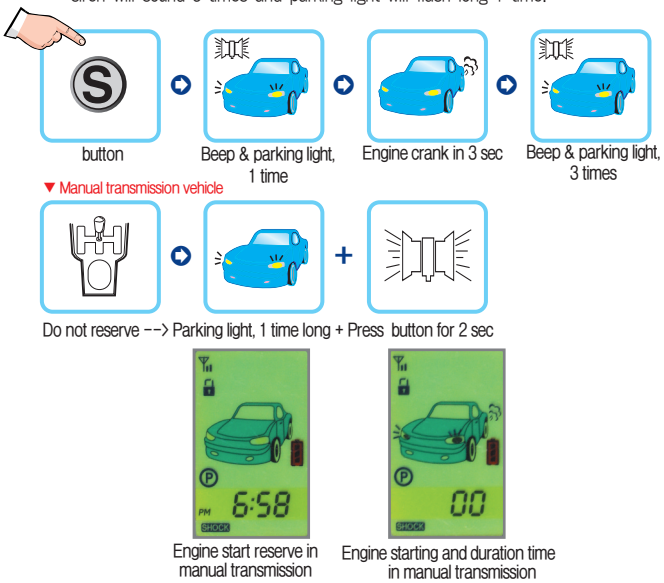
- Trunk will be open
- Alarm will be disarmed
- Siren 2 times, parking light 2 times.
- In 10 seconds, back to alarm arming mode.
- 4 door mode: Before back to arming mode, if you open the door, rearming will not work.
- 5 door mode: If you open the trunk, rearming will not work.



- In the screen of remote, trunk open displayed.
- Back lights of remote will be on (if you are not connected, beep will sound 3 times and no change of the screen and no back lights.)

4) Engine start function: press Ⓢ button for 2 seconds (apply to both auto and manual transmission vehicles).

- Siren 1 time, parking light 1 time.
- In 3 seconds (7 seconds for diesel vehicles), engine will crank (in case of failure, please try more 2 times).
- If engine starts, siren sounds 3 times and parking light flashes 3 times. If it failed, beep sounds 2 times.
- In manual transmission vehicles, if you did not reserve engine start function, siren will sound 3 times and parking light will flash long 1 time.



- In the screen of remote, exhaust gas icon and engine start duration time displayed.
- If engine starts, remote will chirp 2 times and back lights will be on (if you are not connected, beep will sound 3 times and no change of the screen and no back lights.)

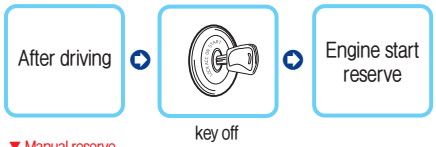
※ In manual transmission vehicles, if engine start function reserved, P icon is on and off in the screen.

Standard Functions

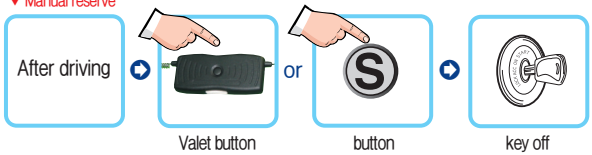
5) Engine start reserve function (manual transmission vehicles)

- Auto reservation: After driving, if you turn the key to OFF position, you can move to engine start reserve mode automatically.
- Manual reservation: After driving, press VALET button (or press Ⓢ button for 2 seconds), and turn the key to OFF position then you can move to engine start reserve mode.
- And then, if you take off the key within 20 seconds, and go out from the car within 20 seconds,
  and close the doors and press button within 20 seconds, engine will die and engine start reserve will be finished.

▼ Auto reserve

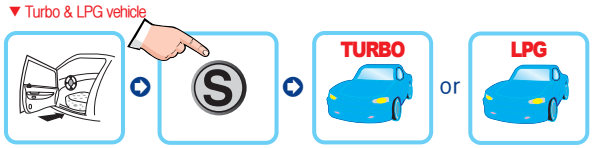


▼ Manual reserve



In case of turbo installed and LPG vehicles, after closing doors, press Ⓢ button for door lock then after 2 minutes engine will die automatically.
If you do not need this function, just press button for door lock then engine will stop immediately.

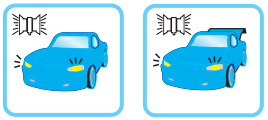
▼ Turbo & LPG vehicle



6) Alarm function: when alarming situation happened (not in valet mode)

- If doors open, siren sounds for 30 seconds and parking light is on and off for 30 seconds.
- If doors open continuously, above will happen 3 more times. If engine-starter-kill relay installed, it will make engine stop.
- If trunk opens, siren sounds for 30 seconds and parking light is on and off for 30 seconds.
- If trunk opens continuously, above will happen 3 more times.
- If this mode worked, there will be door/ trunk open icon in the screen you use door lock/ unlock function (door opens: 2 times, trunk opens: 3 times).
  And it displayed in both car siren and remote.

▼ Door open/ Trunk open



▶Siren 30 sec, parking light will on & off for 30 sec

Door open Screen

Trunk open Screen

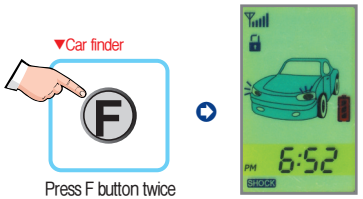
7) Kill engine start function: when alarming situation happened (not in valet mode)

- In case of engine-start-interrupt relay installed vehicles, you can stop engine working.

8) Car finder function: press Ⓕ button twice

- Siren 7 times, parking light 7 times.

▼Car finder



Press F button twice

Screen

9) Page for car owner: knock sensor in front window is received a tap

- Parking light 1 time.
- Chirp sound 4 times.
- Cell phone icon in the screen.

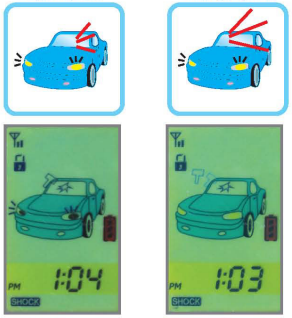
Page for car owne　Parking light, 1 time　chirp, 4 times

Screen

10) Dual shock sensor

- Light impacts: beep sound 6 times, parking light flash 6 times.
- Heavy impacts: siren sounds for 30 seconds, parking light flash on and off for 30 seconds.
- Light impacts: in remote, beep sounds 6 times and shock-receive icon in the screen.
- Heavy impacts: in remote, chirp sounds 13 times and shock-receive and hammer icon in the screen.

▼ Light impacts　▼ Heavy impacts



Light impacts　Heavy impacts

※ On time adjusting functions, press Ⓢ button to confirm and press Ⓣ button to cancel.

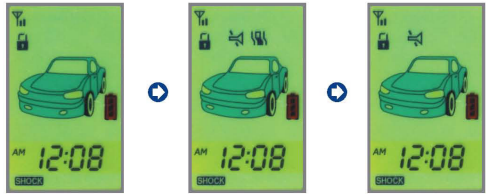
1) Time setting in remote

- Ⓕ + 🔒 button at the same time for 2 seconds, then press 🔒 button for hour setting and press 🔓 button for minute setting. Press Ⓢ button when finished..

Screen

2) Vibration and soundless of remote

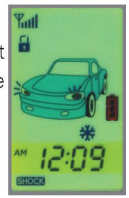
- Ⓕ + 🔓 button at the same time for 2 seconds, then remote mode will change to consecutively sound → vibration → soundless mode.



Screen　Screen　Screen

3) Cold start function

- To use this function, press Ⓕ and Ⓢ button at the same time. If you release this function, repeat one more time.



Screen

Convenience & Optional Functions

4) 24-hour engine start reservation

▶ Press Ⓕ + Ⓣ button at the same time for 2 seconds, then press 🔒 button for hour setting and press 🔓 button for minute setting. Press Ⓢ button when finished.

※ For example) in case of your work in and out time is constant at every day

Screen

5) Alarm notice function

▶ Press 🔓 + Ⓢ button at the same time for 2 seconds, then press 🔒 button for hour setting and press 🔓 button for minute setting. Press Ⓢ button when finished. Ⓣ button for cancellation.

▶ To inactive this function, press 🔓 + Ⓢ button at the same time for 2 seconds and press Ⓣ button.

Screen

6) Window roll up & down/ Sunroof open & close (optional)

▶ Press Ⓣ + Ⓢ button at the same time, then widows will roll up for 2 seconds. Press Ⓣ + 🔒 button at the same time to roll down windows for 2 seconds.

7) Remove shock sensor mode

▶ Press Ⓣ + Ⓢ button at the same time, then shock sensor mode will be inactivated. Repeat same step to back to shock sensor mode.

Screen

Screen

8) Parking time display

▶ After engine stops, press Ⓣ button twice then parking duration time will appear.

Screen

9) Driving time display

▶ When engine works, press Ⓣ button twice then last driving duration time will appear.

Screen

Convenience & Optional Functions

10) Car inside temperature display

▶ Press (T) and (🔒) button consecutively to check the voltage of car battery.

Screen

11) Car voltage display

▶ Press (T) and (🔓) button consecutively to check car voltage.

Screen

12) Check DIP SW and current status activated

▶ Press (F) and (S) button consecutively to check current status.

※ After replacing battery, please do this function to check current status (replacing battery makes remote initialize so adjust time related functions such as current time, alarm notice and 24-hour engine start reserve function etc).

Screen

13) Functions when it installed (H/W)

▶Functions can be changed by DIP SW.

Choice	1	2	3	4
Off (↑)	Gasoline (5sec)	General	General	Auto reserve
On (↓)	Diesel (7sec)	MUSSO	Turbo/ LPG	Manual reserve

14) Customers can choose below when they install

After door open, turn the key to ON position and press valet button 6 times (within 7 sec)	(🔒) 1 sec	Soundless mode -inactivate
	(🔓) 1 sec	Passive mode - inactivate
	(S) 2 sec	Silent mode (car off, remote on) - inactivate
	(T) 2 sec	Unlock auto door lock vehicle - inactivate
	(F) 2 sec	IG lock - inactivate

15) Service centers can choose below for customers

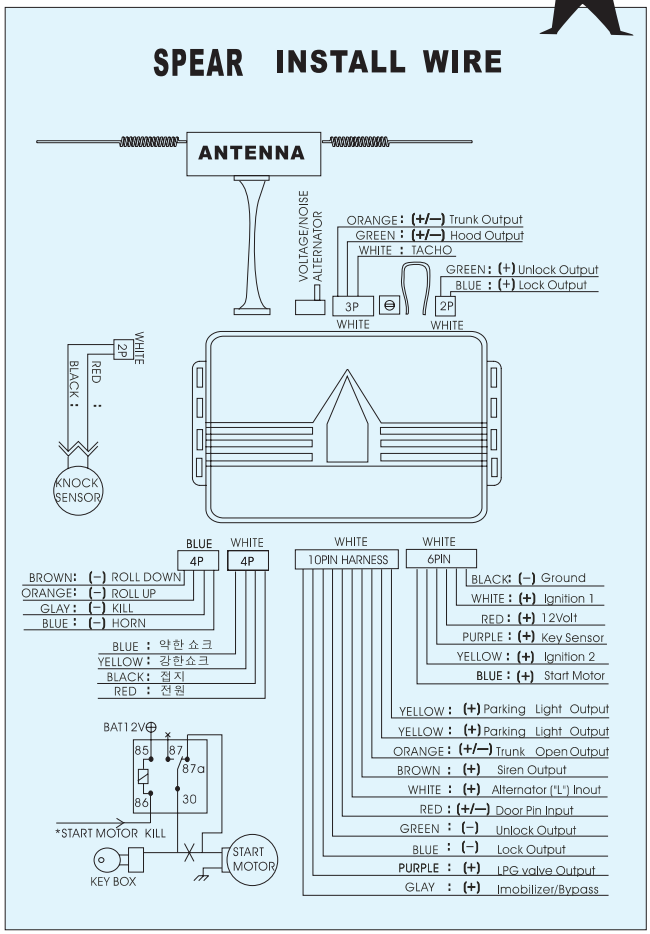
After door open, turn the key to ON position and press valet button 8 times (within 7 sec)	(🔒) 1 sec	Extend cranking time, 1 sec (LPG cars) - inactivate
	(🔓) 1 sec	4 door/ 5 door - 5 door
	(S) 2 sec	Engine start recognize: noise (1 time)/ Slide SW: TACHO (2 times)
	(T) 2 sec	2 min (chirp, 1 time), 5 min (chirp, 2 times), 20 min (chirp, 3 times)
	(F) 2 sec	Factory installed

16) Simultaneous siren and horn sound function

17) If shock and car interrupt happened, remote and car displayed and indicated these

※ If battery is out of power, there will be no display in the screen and back light will be on and off and remote will vibrate weakly.
---- Need to replace battery.

Main Wiring Diagram



Warrant Sheet

Item		Contents		
Name		SPEAR-5000		
Lot No.				
Production Date				
Purchase Date		YY /MM /DD (warrant until YY /MM /DD)		
Customer	Name		Tel	
	Address			
Agent/ Service center	Name		Tel	
	Address			

Sinew Systems

4F, MyungJin Bldg., #978-8, Youngtong-dong, Youngtong-gu,
Suwon-si, Kyunggi-do, Korea
Tel: +82 31 203 0530 Fax: +82 31 203 0532