

TESOR PLUS CORP.

TS5 SERIES - MFT USER MANUAL

Touch-Screen Two Way Remote:TS1,TS4,TS5

One Way Remote :TX127

Two Way Transceiver:TR06CC,TR07CC,TR08CC,TR09CC,TR10CC

Remote function table:

Remote command	Buttons	Key	Conditions
Arm		P1K1	
Disarm		P1K2	
Lock		P1K1	Ignition on
Unlock		P1K2	Ignition on
Silent Arm		P0K1	
Silent Disarm		P0K2	
Car finder		P1K1	Arm state
Anti-hijack		P0K4	Ignition on
Panic	 hold 2 sec	P0K4	Ignition off
Two stage unlock	 hold 2 sec / press times	P1K2	See function program
Shock bypass		P1K1	
Activate Channel 1	 hold 2 sec	P1K3	See function program
Activate Channel 2	 hold 2 sec	P1K1	See function program
Activate Channel 3		P11K1	See function program
Activate Channel 4		P11K2	See function program
Activate Channel 5		P11K3	See function program
Activate Channel 6		P11K4	See function program
Remote engine start	 hold 2 sec	P1K4	
Remote engine shut down		P1K4	
Arm with engine running		P8K1	Engine run (by ignition key)

Outside view:

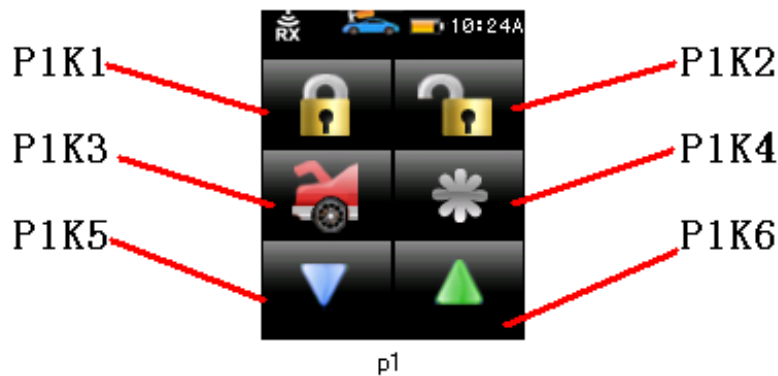


MAIN PAGE:

Press KEY to display Page 0: **press anywhere in touch area to display PAGE ONE**



PAGE ONE:



Press Forward or Backward button display other page

Other PAGES:







Button define is same as PAGE ONE,such as : P11K3 is CH5 button in p11

When transmitter received the car alarming will play trigger movies and sound voice:
The move will be stopped,if the key pressed


Cancel count down: set count down =00:00
Cancel alert time: set alert time =00:00
Cancel PIN code: set PIN code =000000

Button in other page function table:

Buttons	Key	Explain	Buttons	Key	Explain
	P2K1	Set park time			
	P2K2	Set park position		P7K2	Set car loge in p0
	P2K3	Set count down time		P7K3	Set English menu
	P2K4	Clear trigger		P7K4	Set Spain menu
	P3K1	Set alert time		P8K1	Engine run
	P3K2	Set time display		P8K2	Get vehicle battery volt
	P3K3	Set VIBR. Melody and key tone			
	P3K4	Show DEMO		P8K4	Get the outside temperature
	P4K1	Set backlight		P9K1	Set daily start
	P4K2	Set light delay		P9K2	Set count down start time
	P4K3	Set currently time		P9K3	Power save on
	P4K4	Set handset PIN code		P9K4	Power save off
	P6K1	Set currently car to 1 st and set car name		P10K1	Silent arm key
	P6K2	Set currently car to 2 nd and set car name		P10K2	Silent disarm key
	P6K3	Set currently car to 3 rd and set car name		P10K3	Arm without ZONE
	P6K4	Set currently car to 4 th and set car name		P10K4	car jack key


1. Arm



Press button  once, system will chirp once, parking lights flash once, lock the doors, starter disabled, window close output 1 sec. (if CH4 programmed), status LED start to flash slowly, will chirp 4 times and parking lights flash 4 times if door or hood or trunk isn't closed well while arming, and will not detect the door (hood, trunk) open until there are full closed well. The system can be triggered 5 second after armed if choosing "off" in program feature A-3. In other case see program feature table description. Shock sensor can be trigged after armed in program feature A-3.


2. Disarm



Press button  once, system will chirp and flash twice, unlock the door, turn on dome light, LED flash rapidly 30 sec. (if rearm function ON and off when door or trunk open or ignition turn ON). IF system was alarmed in arm mode (except warning zone of shock sensor) then if disarm siren chirps 4 times. IF system was alarmed in arm mode, Transmitter will chirp 4 times and show triggered detail record include trigger zone name, time, date.


3. Silent Arm



Press button , system will arming without chirp.

4. SILENT DISARM





Press button , system will disarm without chirp.

5. Alarm mode

The siren will sound, parking lights flash 30 sec. if door or hood or trunk is opened or ignition key is turned on or triggered main zone of shock sensor. If trigged warning zone of shock sensor siren chirps 6 times.



To stopping alarm press button  or .

Number of alarm hasn't to be more than 5 times for each zone.


6. Trigger zone display

When system is alarming or after disarming, if the LED quick flashes several times and then 1 second pauses, it indicates the system has been triggered, and the times the LED flashes indicate the zone that was triggered, as below:

Twice: AUX 4 PIN 1 heavy trigger
3 times: AUX 4 PIN 2 heavy trigger
4 times: TRUNK
5 times: DOOR
6 times: HOOD
7 times: IGN


7. Arm without ZONE




Press button , once to set arming, siren chirp, parking lights flash once, build in shock sensor will be bypassed, other sensor is normal.
Aux sensor 1 and sensor 2 will be bypassed, other sensor is normal.


8. Arm with engine running



While engine is running and the key at ignition ON position press button , parking lights flash, transmitter sounds. Then get out ignition key (engine goes on running! hand brake

must be pull up). Press button  system will chirp once, parking lights flash once. Engine will be running 15, 30, 45 or unlimited time period (according the program features F-3) then shut down and system. Shock sensor is bypassed at this period.



Press button  once to shut down engine. Parking flash once for confirm.
Engine also shut down when alarm.

9. Auto rearm

System will be rearm and relock if no any door (or trunk) opens or ignition key turn on within 30 seconds after disarmed. It's programmable function – see program features B-1.

10. Passive arming / Arming reminder



Ignition is off after driving, open the door, leave out and close it. the system will automatically armed after 30 sec. Passive arming still no lock door. It's programmable function – see program features B-2


11. Immobilizer

At immobilizer mode system automatically enter starter disable relay (w/o arm) after 30 sec from ignition turn off. At this mode LED flash when ignition ON.


12. Two-Stage unlock





Press button  will unlock driver's door only. Hold button  for 2 seconds or press

button  twice (see program feature C-2), will unlock the passenger's doors (activate "2nd stage Unlock Output"). If programmed.

13. Lock

When system is disarmed and ignition key is on, press  button will lock the doors.

14. Unlock

When system is disarmed and ignition key is on, press  button will unlock the driver's door. Hold button  will unlock the passenger's doors (activate "2nd stage Unlock Output").


15. Lock / Unlock door upon ignition

If this function programmed (program feature A-2) car's doors lock automatically when ignition turn on and unlock when ignition turn off.


16. Car finder

When system is armed, press button  simultaneously one time, siren will chirps 6 times and parking lights flash 6 times.


17. Trunk release (Channel 1)

Press and hold 2 sec. button , channel 31 will active for 0.8 sec., When system armed shock sensors and trunk trigger will bypass until 10 sec after trunk closed.


18. Channel 2

Hold button  for 2 seconds to activate channel 2. See programmable function (program feature C-2).


19. Channel 3

Press  to activate channel 3, remote Output pulse time of channel 3 is programmable function (program feature C-3).


20. Channel 4

Press  to activate channel 4, remote Output pulse time of channel 4 is programmable function (program feature C-4).

21. Channel 5


Press  to activate channel 5, remote Output pulse time of channel 5 is programmable function (program feature D-1).



22. Channel 6

Press  to activate channel 6, remote Output pulse time of channel 6 is programmable function (program feature D-2).

23. Panic


In arm or disarm mode and ignition key is off.

Press button  hold 2 sec ,system enter panic mode. System arm (with doors locking), siren will

sound and parking lights flash for 30 sec. Press button  or  during 30 sec to stopping alarm mode. (System stays at arm mode).

24. Anti-hijack mode

Ignition must be ON and all doors closed.

Press button , (or press override button once then open and close door) to activate anti-hijack mode. Parking lights flash once, LED start to flash rapidly.

To deactivate anti-hijack mode press button  or enter PIN-cod.
After 30 sec system enter arm with alarm modes, stopping alarm and disarm by transmitter is disable. To deactivate anti-hijack mode enter PIN-cod only or follow up override steps.

25. Valet mode

At valet mode system can be remote door lock / unlock, activate channels. No any protect function.

Enter and exit Valet mode procedure:

Be sure the system is disarmed.

Turn the ignition key on.

Press and hold the valet switch for 3 seconds.

The siren will chirp once to enter valet or twice for exit.

The LED will turn on solid indicating the system is in valet mode, or turn off indicating

26. Override

Enter the vehicle

Turn the ignition key on.

Press and hold the valet switch for 3 seconds.

The siren will stop sounding.

The starter defeat is deactivated.

27. Pin code procedure

Pin-code consists of two digits. To disarm system with out remote transmitter or deactivate Anti-hijack mode use PIN-code procedure.

Pin-code consists of two digits: X, Y. Factory default 1:1 (X=1, Y=1)

To disarming:

- turn ignition ON
- press override button (X) times
- turn ignition OFF then ON
- press override button (Y) times
- turn ignition OFF

After that system disarms.

Note: System will automatically get out of PIN-code procedure if no pressing within 20 sec after last one.

28. PIN-code setting

To change PIN-code:

- turn off ignition and the system is disarmed.
- Press the valet switch 4 times.
- Turn ignition on.
- The siren will chirp 4 times.
- press override button once
- siren chirps one time
- press button of transmitter to enter first digit of PIN-code:



- siren confirm selecting digit (1...4 chirps)
- press override button once
- siren chirps two times
- press button of transmitter to enter second digit of PIN-code:



- siren confirm selecting digit (1...4 chirps)

After 20 sec or turning off ignition system will get out the PIN-code setting procedure, parking lights flash 4 times.

29. Manual arm

Turn ignition off, press override button 3 times. Then open and close all doors. System auto arms in 10 sec with out door closing. If used manual arm mode and any zone triggered system turn alarm mode in 20 sec delay.

30. Turbo timer

Turbo timer is programmable function (feature program F-2)



If function on:

- pull up hand brake while engine is running
- turn ignition key off and take out the key (engine is still running)
- engine will run for the programmed duration

To stopping engine press button  once. Parking flash once for confirm.

31. Mid-gear procedure (for manual gear only)

If you are going to leave the vehicle the following procedure must be performed (It is need for safety engine auto start):

- ignition key is on, engine running
- pull up hand brake
- press and hold 2 sec. button , parking lights flash once
- turn ignition key off and take out the key (engine is still running)
- get out the vehicle and close the door
- after close the door, system shut down engine.
- system shut down engine 1 minute later button  pressing or immediately after arming (and door locking) by remote.

This procedure must be performed each time before getting out the vehicle. Open door will cancel the setting.

32. Learn tachometer (RPM)

turn off ignition

- press override button 7 times
- turn on ignition
- parking lights flash and siren chirps 7 times
- press override button 6 times
- siren chirps 2 times

Start the vehicle with the key. while the engine is running, the parking will flash. if don't, please check tachometer wire connection.




Press on transmitter to record the RPM. Chirp once to confirm.



Press on transmitter to exit the RPM learn mode. chirp 4 times and flash 4 times

33. Remote engine start

Press and hold 2 sec. button  to remote engine start, parking light flash twice to confirm. If engine isn't started up from first, the system will automatically total start the engine 4 times. Cranking time (program feature E-2) of each next attempt will be increased by 0.2 sec.

If start is successful, parking lights flash 3 times

Engine runs during “running time”. Then shut down automatically.

To stopping engine press button  once. Parking flash once for confirm.

Engine auto start isn't available in case of:

- engine is running
- hood is open
- hand brake isn't activated
- Mid-gear procedure isn't executed (for manual gear only)

When remote start is fail, siren chirps 4 times.

34. Learning codes of remote transmitters

There are only four transmitters may be learned in system's memory.

Codes of learned remote transmitters will be erased each time the learning mode is activated.

To activate leaning codes mode:


-Turn the ignition on, off, on, off and leave on.

The siren will chirp.


-Press and hold the Valet/Override switch.

The siren will chirp 3 times.


-Release the Valet/Override switch.

- press button  of first remote transmitter


- siren chirps and remote transmitter beeps once

- press button  of second remote transmitter

- siren chirps and remote transmitter beeps two times

- press button  of third remote transmitter

- siren chirps and remote transmitter beeps 3 times

- press button  of fourth remote transmitter

- siren chirps and remote transmitter beeps 4 times

After 20 sec or turning off ignition system will get out the transmitter learning procedure, The siren will chirp 3 times.

35. Programming functions





FEATURE “A” PROGRAMMING

- turn off ignition
- press override button 3 times
- turn on ignition
- parking lights flash and siren chirps 3 times
- push the Valet Switch 1 times.
- one long chirp with 1 short chirps is heard.

You are now in the start feature “A” programming mode.

- press and release the transmitter button corresponding to the feature you want to program.





Exit feature programming: After 20 sec or turning off ignition system will get out the feature programming setting procedure, parking lights flash 4 times.

Press Tran A4 Button 	siren chirps when one chip arm, disarm LED 1 pulse Default setting	siren no chirps when arm LED 2 pulse no chirps when disarm	three chip LED 3 pulse	four chip LED 4 pulse
	0.8 Second	3.5 Second	0.8 Second Lock ,	0.8 Second
A1 	Door Lock & Unlock	Door Lock & Unlock	0.8 Second double Unlock	double Lock , 0.8 Second double Unlock
A2 	Ign ON with lock, Ign OFF with unlock	Ign ON without lock, Ign OFF with unlock	Ign ON with lock , Ign OFF without unlock	Ign ON without lock, Ign OFF without unlock
A3 	ARM delay 15s	ARM delay 30s	ARM delay 45s	ARM no delay

FEATURE “B” PROGRAMMING

- turn off ignition
- press override button 3 times
- turn on ignition
- parking lights flash and siren chirps 3 times
- push the Valet Switch 3 times.
- one long chirp with 3 short chirps is heard.
You are now in the start feature “B” programming mode.
- press and release the transmitter button corresponding to the feature you want to program.




Exit feature programming: After 20 sec or turning off ignition system will get out the feature programming setting procedure, parking lights flash 4 times.


Press Transmitter Button	one chip LED 1 pulse Default setting	two chip LED 2 pulse	three chip LED 3 pulse	four chip LED 4 pulse
B1 	Auto rearm off	Auto rearm on without lock	Auto rearm on with lock	
B2 	passive arming off	Passive arming on without lock	Passive arming on with lock	
B3 	Immobilizer mode off	Immobilizer mode on		
B4 	Anti-jack off	Anti-jack on		

FEATURE “C” PROGRAMMING

- turn off ignition
- press override button 3 times
- turn on ignition
- parking lights flash and siren chirps 3 times
- push the Valet Switch 5 times.
- one long chirp with 5 short chirps is heard.
You are now in the start feature “C” programming mode.
- press and release the transmitter button corresponding to the feature you want to program.

Exit feature programming: After 20 sec or turning off ignition system will get out the feature programming setting procedure, parking lights flash 4 times.




Press Transmitter Button	one chip LED 1 pulse Default setting	two chip LED 2 pulse	three chip LED 3 pulse	four chip LED 4 pulse
C1 	CH1 For trunk release each output 1s when active.	CH1 for channel output each output 30s when active.	CH1 for channel output =latched output	CH1 for channel output = latched output and reset with IGN on
C2 	CH2 for 2 nd Unlock Hold button 2 2second to active	CH2 for 2 nd Unlock Press button 2 2 times to active	CH2 for OEM DISARM	CH2 for channel output each output 30s when active.
C3 	CH3 For dome light	CH3 for channel output = latched output and reset with IGN on	CH3 for channel output each output 1s when active.	CH3 for channel output each output 30s when active.


C4 	CH4 For Car HORN output	CH4 For window close Each output 1s , When arming .	CH4 for OEM REARM	CH4 for channel output each output 30s when active.
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FEATURE “D” PROGRAMMING

- turn off ignition
 - press override button 3 times
 - turn on ignition
 - parking lights flash and siren chirps 3 times
 - push the Valet Switch 7 times.
 - one long chirp with 7 short chirps is heard.
- You are now in the start feature “D” programming mode.
- press and release the transmitter button corresponding to the feature you want to program.

Exit feature programming: After 20 sec or turning off ignition system will get out the feature programming setting procedure, parking lights flash 4 times.




Press Transmitter Button	one chip LED 1 pulse Default setting	two chip LED 2 pulse	three chip LED 3 pulse	four chip LED 4 pulse
D1 	CH5 For ACC output	CH5 for channel output =30s pulse	CH5 for channel output = latched output and reset with IGN on	CH5 for channel output =1s pulse
D2 	CH6 For IGN3 output	CH6 for channel output =latched output	CH6 for channel output = latched output and reset with IGN on	CH6 for channel output = 1s pulse
D3 	Trunk pop no disarm	Trunk pop with disarm		


D4 	ENABLE Remote start and Engine Running as long as "+" or "-" Brake input	DISABLE Remote start and Engine Running as long as "+" or "-" Brake input		
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FEATURE “E” PROGRAMMING

- turn off ignition
 - press override button 3 times
 - turn on ignition
 - parking lights flash and siren chirps 3 times
 - push the Valet Switch 9 times.
 - one long chirp with 9 short chirps is heard.
- You are now in the start feature “E” programming mode.
- press and release the transmitter button corresponding to the feature you want to program.

Exit feature programming: After 20 sec or turning off ignition system will get out the feature programming setting procedure, parking lights flash 4 times.





Press Transmitter Button	one chip LED 1 pulse Default setting	two chip LED 2 pulse	three chip LED 3 pulse	four chip LED 4 pulse
E1 	Gasoline engine. The glow plug wire (diesel wait light) not use.	Diesel engine. 10 seconds warm-up timer The glow plug wire not use.	Diesel engine. The glow plug wire must connect positive diesel wait light. (max 120 sec.)	Diesel engine. The glow plug wire must connect negative diesel wait light. (max 120 sec.)
E2 	Cranking time 0.8 s	Cranking time 1.8 s	Cranking time 3.6 s	Push button start
E3 	detects engine running by increasing low level of power voltage	detects engine running by increasing hi level of power voltage	detects engine running by RPM type	detects engine running by GENERATOR

E4 	Each time remote engine running 5 minutes	Each time remote engine running 10 minutes	Each time remote engine running 15 minutes	Each time remote engine running 20 minutes
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FEATURE “F” PROGRAMMING

- turn off ignition
 - press override button 3 times
 - turn on ignition
 - parking lights flash and siren chirps 3 times
 - push the Valet Switch 11 times.
 - one long chirp with 11 short chirps is heard.
- You are now in the start feature “F” programming mode.
- press and release the transmitter button corresponding to the feature you want to program.

Exit feature programming: After 20 sec or turning off ignition system will get out the feature programming setting procedure, parking lights flash 4 times.

Press Transmitter Button	one chip LED 1 pulse Default setting	two chip LED 2 pulse	three chip LED 3 pulse	four chip LED 4 pulse
F1 	ACC output When remote start success	ACC output When hood temperature 50	ACC output When hood temperature 70	ACC output 5 min before engine shut down
F2 	TURBO off	Turbo timer 1 min.	Turbo timer 3 min.	Turbo timer 6 min.
F3 	Running time of Arm with engine running 15 min.	Running time of Arm with engine running 30 min.	Running time of Arm with engine running 45 min.	Running time of Arm with engine running no limit.
F4 	Temperature-control starting OFF	Temperature-control starting ON at -5	Temperature-control starting ON at -10	Temperature-control starting ON at -20

RETURN TO FACTORY DEFAULT SETTING

- turn off ignition
- press override button 3 times
- turn on ignition
- parking lights flash and siren chirps 3 times
- push the Valet Switch 13 times.
- 3 long chirp is heard,

You are now in the “Return to factory default setting” programming mode.

Press and release the transmitter button  , there will be a confirmation **1 short chirps** to confirm the system “**feature A,B,C&D programming all return to factory default setting**”.

Press and release the transmitter button  , there will be a confirmation **2 short chirps** to confirm the system “**feature E&F programming all return to factory default setting**”.

Press and release the transmitter button  , there will be a confirmation **3 short chirps** to confirm the system “**pin code return to factory default setting**”.

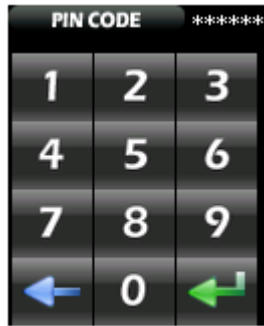
Exit feature programming: After 20 sec or turning off ignition system will get out the feature programming setting procedure, parking lights flash 4 times.

36. Wires description

1 black loop for select type of gear

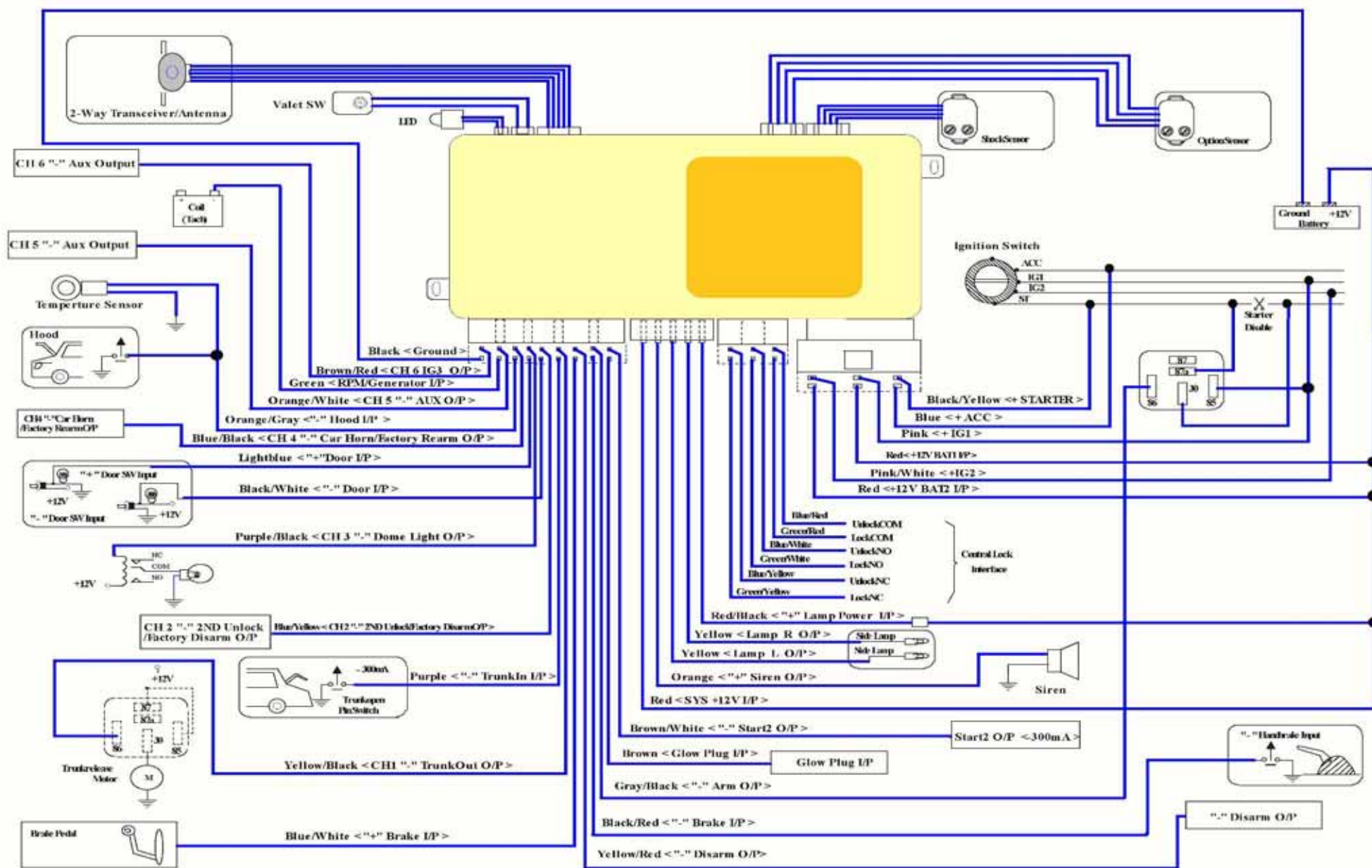
not cut – auto gear
cut – manual gear

Set handset PIN code:



p44a

To check whether the PIN code is right or wrong, can press P1K2, P9K2 to check, if the PIN code is correct then can go to the next step. Before PIN code setting, need to check and see top right side of screen will show ***PIN, after entered the correct PIN code, will show *** 1ST on the top right side, means in the first entering status, after setting, will show ***2ND, second entering status, if same as the first setting will display SAVE the PIN code and return to P4, if not the same will display ERROR and return to P4, if lose the PIN code can read out through the data wire from PC. PIN code will be cancelled if set PIN code to 000000.



Federal Communications Commission (FCC) Statement

15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

15.105(b)

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 or more 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.

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 of the device.