

INSTALLATION GUIDE

FM 2 WAY RS-525NV

1

Remote starter features

1. Special TACH learning technology with cranking automatically
2. Generator (+) input available
3. Range up to 3,000 feet**
4. Industry grade: -35 °C ~ +80°C is guaranteed
5. Keyless running mode
6. Compatible for **Manual and Automatic** transmission
7. Compatible for **Diesel** engine with *glow-plug* input (+) or (-)
8. Output (500mA) for **Passkey**
9. *Cold start* timer for 2, 3 and 4 hrs for 6 minutes of running time
10. Safe function on hand brake/foot brake/hood
11. 2nd ignition/ACC/start available
12. Polarity selection for parking light
13. Starter disable switch
14. Door re-lock when remote start
15. Installation diagnostic mode
16. Turbo timer programmable
17. Optional input for timer / Temperature sensor

** May vary depending on area, weather and various factors **

Alarm features :

1. *Soft chirp* when arm and disarm including horn or siren
2. On board and pre-wired starter kill relay
3. Output (+2 Amp) for **horn or siren** – *relay not require*
4. Auto re-arm/re-lock
5. Visual and audible **tamper memory**
6. With alarm & without alarm programmable
7. Positive and negative door input
8. **Dual zone** plug in mini shock sensor (Option)
9. Faulty zone by-pass
10. Easy valet & over-ride
11. 3rd channel (i.e. trunk output)
12. Dedicated **Smart button** for *Silent* arm and chirp delete
13. Pre-warning melody soft chirp(5 sec.) when door open without disarm
14. Diagnostic mode for trouble shoot after installation

INSTALLATION GUIDE

FM 2 WAY RS-525NV

2

Manual or Automatic transmission

The command module is set by default to operate in a vehicle equipped with a Manual transmission. For an Automatic transmission refer to Fig 1 and cut the loop.

Note : Remember to always reset the unit (power off/on) after cutting the loop

A -To code the transmitter

Transmitter is programmed already in factory and can work normally. While transmitter is lost, Please follow the procedure listed below to re-program transmitter.

- a- Hold the black switch on the side of receiver 5 seconds, white LED on receiver will be steady bright.
- b- Release the black switch on the side of receiver, then press any button of transmitter within 10 seconds, control module will have one chirp to confirm the programming is completed.

B - Override

To Override the alarm and starter kill

- 1-Turn the key to Ign On and within 6 sec.
 - 2-Press and hold the programming button .
 - 3-Siren or horn will stop sounding, alarm and starter kill will be cancelled instantly in case of lost or malfunction of the transmitter.
- To reactivate the alarm function, repeat step 1 and 2 . System will chirp Twice (2) to confirm.

Valet (Sleep Mode)

To put the system in "Sleep Mode" for car servicing or in "Valet Parking"

- 1-Turn the key to Ign On and within 6 sec.
- 2-Press and hold the programming button
- 3-System will chirp Once (1) for Valet mode activated (On). LED will stay ON for 5 sec then Off for 5sec continuously.
- 4-To turn Off the "SleepMode" or the "Valet Parking", repeat step 1 and 2. System will chirp Twice (2) to confirm.

FM 2 WAY RS-525NV

C-DIP Switch setting (always power off the command module to perform this step)

DIP SW	OFF	ON
D1	GAS	DIESEL
D2	HORN	SIREN
D3	Lock Pulse 0.8 sec	Lock Pulse 4 sec.
D4	Unlock 1 pulse	Unlock 2 pulses
D5	TACH	GENERATOR
D6	Running time 20 minutes	Running time 12 minutes
D7	Do Not Use	Do Not Use
D8	Immobilizer mode <i>Disable</i>	Immobilizer mode <i>Enable</i>
D9	Dome diagnostic Enable	Dome diagnostic Disable
D10	Turbo Timer <i>disable</i>	Turbo Timer <i>enable</i>
D11	Do not use	Do not use
D12	Normal Tach	Low Tach (more sensitivity)

D- Instant diagnostic for Remote Starter and Alarm

No programming mode is necessary. After completing installation, press **Start** or **Lock / Arm** button and refer to the below chart to locate the problem.

REMOTE STARTER

Parking Light	2 Flash	3 Flash	4 Flash	5 Flash	6 Flash	6 Flash
Press START	VALET	IGN is ON	Not ready*	Hood open	Foot Brake	Hand Brake

*Automatic = start with key to confirm Tach signal everytime control module is plugged in or check if the loop is cut

*Manual transmission = a) same as above b) no manual setting sequences are performed c) check the loop

ALARM

Horn / Siren	1 Chirp	3 chirps	4 chirps	5 chirps
Press LOCK / ARM	Normal	Shock sensor	Door	Hood

Note: In the event that the vehicle has the domelight delay, to avoid the 4 chirps when doors are locked by the transmitter, go to section C and Disable D9 (domelight diagnostic).

E – Tach learning procedure

1-Start the engine with the key, the LED will stay solid if the tach source is correct. In the negative, change to another location or set DIP switch D12 to *ON* for **Low Tach**. **Unplug the command module to reset for the new setting.** It happens sometime that the tach signal seems to be correct when the engine is warm, but it becomes weak when it starts to getting cold.

Consult our Tach Reference List or call us to get one.

2- Warm up the engine at the normal temperature at approx. 800rpm. **Press and hold** buttons *Lock & Unlock* for 3 sec and *release as soon as the parking lights start flashing* to confirm the learning procedure. **Wait** to hear a chirp (if horn is installed) or one final parking flash to end the operation.

F- Toggle (On/Off) switch

The function of the Toggle (On/Off) switch is to *allow or stop mechanically* the system to remote start.

The alarm and starter kill function remain functional regardless the position of this switch.

To override the alarm, the starter kill and the remote starter, refer to section B

FM 2 WAY RS-525NV

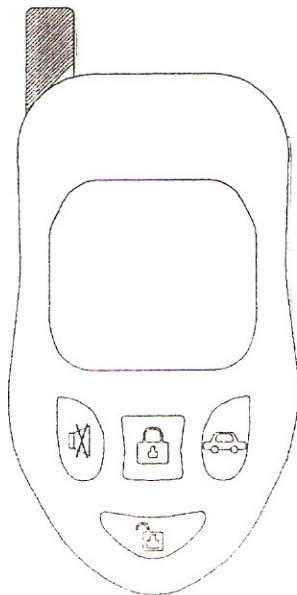
G- LCD Display



When the power is ON, every symbol on LCD will display once. The display changing of the symbol need Main unit send back signal to confirm.

-  Send signal indicator, every transmit it will display once, it means the transmitter has send signal to the main unit.
-  Door lock indicator, it will flash after the door is lock.
-  Door unlock indicator, it will flash after the door is unlock.
-  Battery low indicator, it will flash when the battery power is low, you need change the battery.
-  Car has been attack by shock indicator, it will flash until the owner press the transmitter again to get a new state signal.
-  Car has been started indicator, it will flash when the KEY ON open is alarming until the owner press the transmitter again to get a new state signal.
-  Door open indicator, it will flash when the door open is alarming until the owner press the transmitter again to get a new state signal.

H- Functions of transmitter



-  : Transmitter Programming
Lock/Arm
Panic (3 sec.)
-  : Unlock/Disarm
Trunk (3 sec.)
-  +  : Cold Start Timer(w/o Ignition)
TACH Learning (w/Ignition)
-  : Silent Mode with Chirp Delete
Turbo Timer (3 seconds)
Manual Transmission Mode
-  : Start/Stop
Keyless Running Mode
-  +  : Button Lock

Wiring diagram RS-525NV

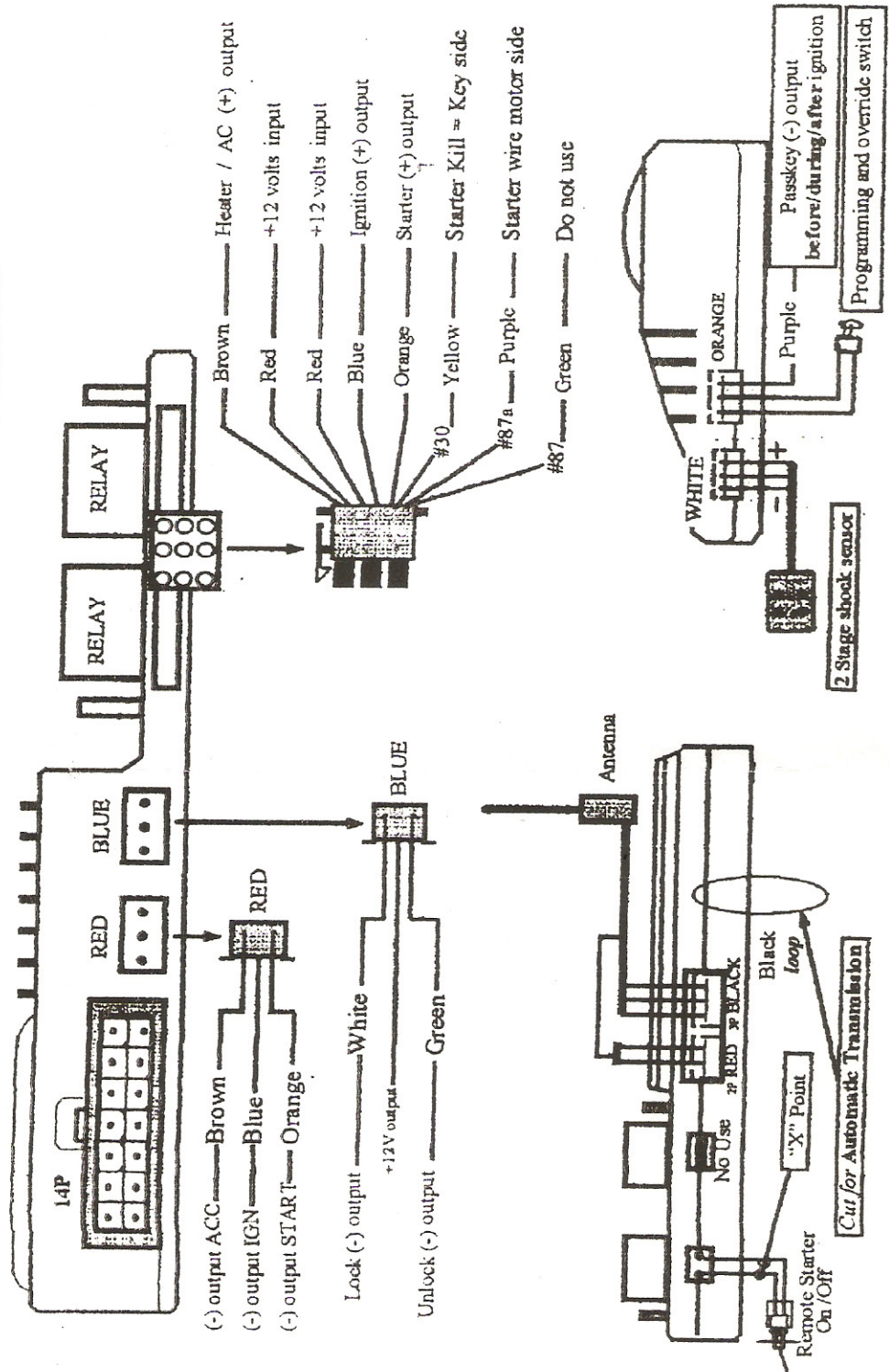


Fig. 1

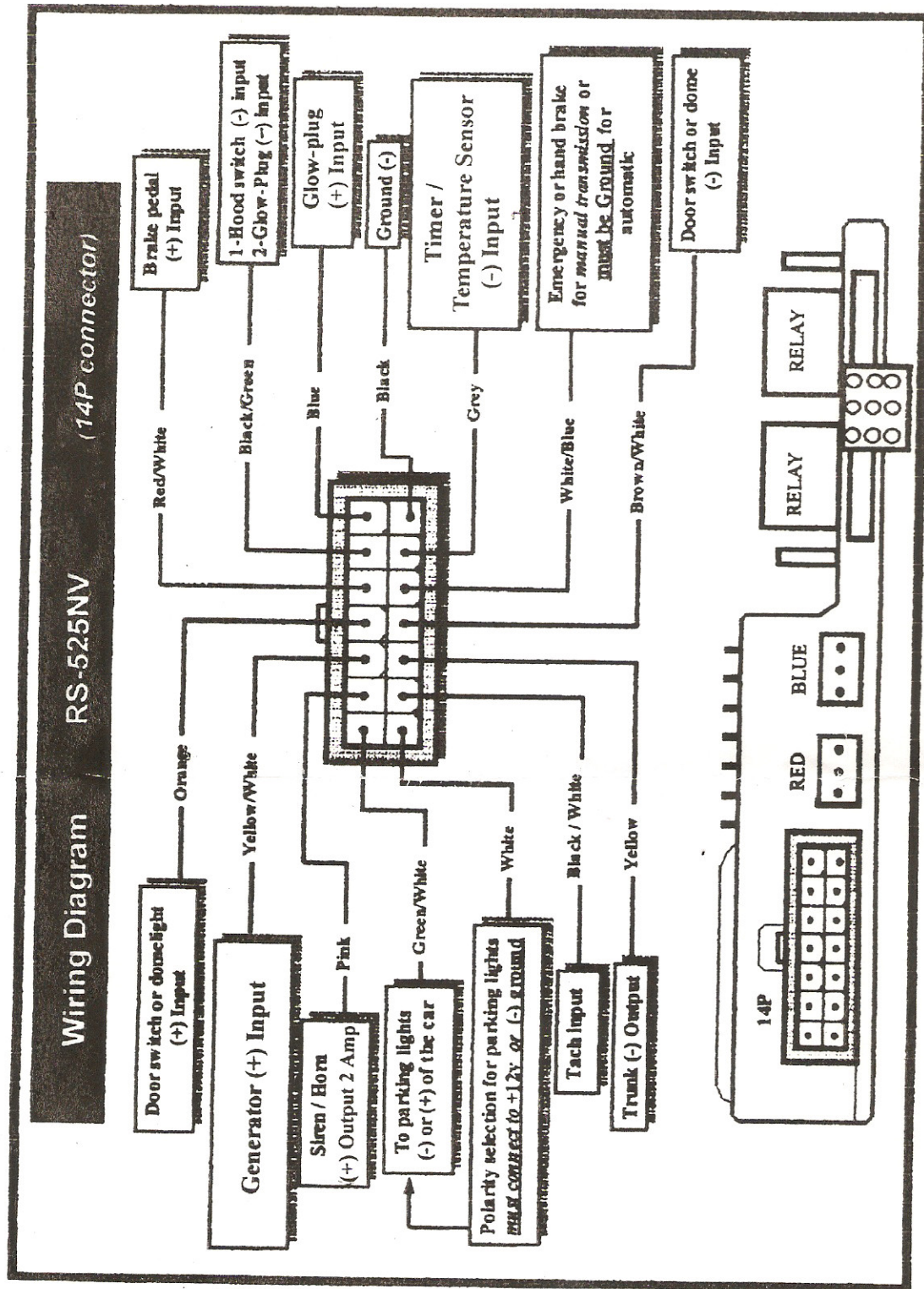


Fig. 2