TRANS TX

RhinoCo TECHNOLOGY ®
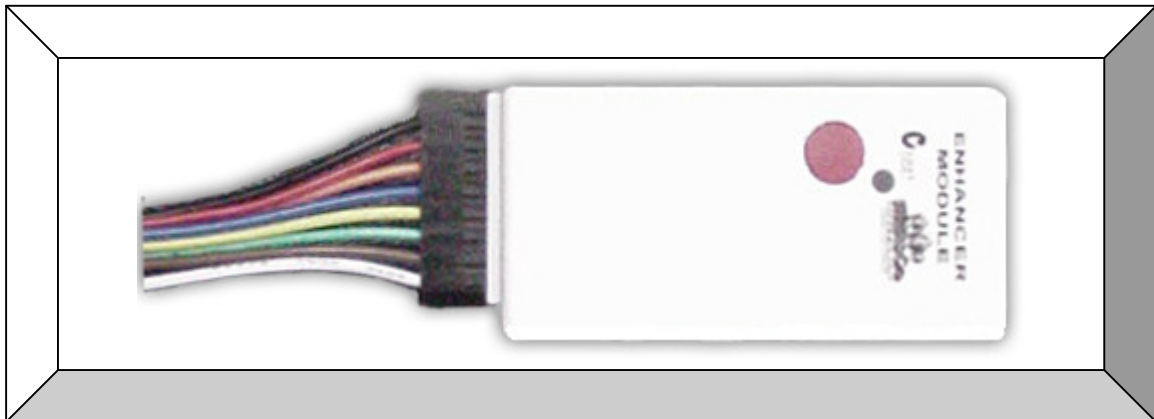**LEADING THE CHARGE!**

Part No: TRANS TX

Transform Standard Factory Fitted Security System To Rhino Standard Suitable For RAM, RAv2 & JAG

❑ This unique device enables your chosen Rhino Vehicle Security System (Model RAM, RAv2 or JAG) to be controlled via the original keyless entry remote controls supplied by your vehicle manufacturer.

❑ When you lock your car doors using your original factory remote, you will also be automatically arming (turning on) your chosen Rhino Vehicle Security System.

❑ When you unlock your car doors using your original factory remote, you will also be automatically disarming (turning off) your chosen Rhino Vehicle Security System.

❑ This product is to be installed in accordance with the methods & principles detailed in AS 3749.2:1997

Instruction Manual TRANS TX 18102006.doc

Thank you for purchasing a quality Rhino Vehicle Security Product.

Please read this manual carefully before commencing installation and keep it in a safe place for future reference.
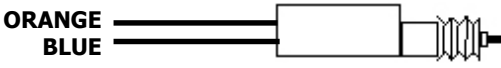
Installation Procedure

1.Install Alarm (RAM, JAG, RAv2)

Install the alarm unit as per manual with the following notes in mind:
- Do not connect lock/unlock on the JAG or RAv2 alarm. The lock/unlock should be connected on the RAM to allow lock/unlock via sms.
- Some vehicles require "Door Ajar Warning' to be turned off (10 beeps on arm)
- Read the following two steps first, to understand the requirements for installation of the TRANS TX Module.

2.Install TRANS TX Module

Connecting the TRANS TX module:

Wires	Colours	Connections
GND	Black	Ground
POWER	Red	+12V
Motor 1 Motor 2	Orange Blue	<u>MUST</u> connect to central locking motor wire <u>MUST</u> connect to other central locking motor wire ***NOTE:*** *Orange and blue wires may be connected to either central locking motor wire. Direction does not matter.*
Positive 1 Positive 2	Yellow Green	Connect as specified in <u>Common Vehicles</u>, *or*, connect to any combination of positive wires to activate arm/disarm. Boot is optional. *See Example installation if this is not clear.*
Negative 1 Negative 2	Brown White	*Default, Setting2:* Connect to inhibits. Inhibits the Trans TX from arming/disarming if the negative is detected before the motor drive or positive lock/unlock signal. Generally connected to the switch in the motor. *Setting1*: Setting 1 will change these two inputs to the same as the two positives (Yellow/Green), allowing them to learn Arm/Disarm signals instead of 'inhibiting' arm/disarm.

IMPORTANT: You will have to find any wire(s) that changes only when you lock/unlock from the factory remote, or, only when you lock unlock manually, in other words, a unique signal that occurs only when the factory remote is pressed, or, a unique signal that only occurs when you lock/unlock with you finger. This is how the TRANS TX knows to only arm/disarm the alarm when the factory remote is pressed.

This example uses a wire that only changes state when the factory remote is pressed
Example 1: Some European cars have a locking mechanism in the fuel cap which only locks/unlocks when the factory remote is pressed.

This example uses a wire that only changes state when lock/unlocked without the factory remote
Example 2: Some cars will pulse one of the negative wires on the dash lock/unlock button, but will NOT pulse when you press the factory remote (some cars require a diode to isolate signals).
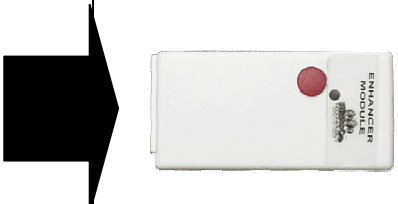
2.Changing Setting 2/Setting 1 (Inhibit mode/Enable Mode)

The intelligent TRANS TX unit can easily switch between Setting 1 'Enable mode' & Setting 2 'Inhibit Mode'.
Setting 1 'Enable mode': Allows the negative inputs to be connected, and learnt, as wires that will arm/disarm the alarm.
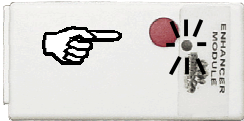*Setting 2 'Inhibit mode'*: Allows the negative inputs to be connected to any wire that will inhibit the arm/disarm if the input goes negative prior to, or at the same time as, the motor drive/positive inputs. Preventing manually locking/unlocking the car from arming/disarming. This setting is the default setting.

Carry out this procedure to toggle between the two settings.

1. Disconnect the Trans TX		**Disconnect the Trans TX.**
2. Press and hold the button down.	Holding the button in	**Press and hold the button.**
3. While still holding down the button, plug the wire harness back into the Trans TX.	Wait for LED to Flash	**Plug in the Trans TX**
4. Once the unit is power plugged in, the unit will give 1 flash for setting 1, and two flashes for setting two. Simply repeat these steps to choose between the two settings.		**1 Flash = Setting 1 2 Flashes = Setting 2**

3.Learn vehicle into the TRANS TX Module

The intelligent TRANS TX unit now must learn Lock, Unlock and boot.
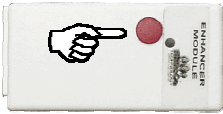
1. Sit in the vehicle, close all doors and lock the vehicle with the factory remote.	**Sit in vehicle with vehicle locked.**
2. Press and release the button on the TRANS TX module. The LED will turn on, on the TRANS TX Module.	**TRANS TX LED Turns on Immediately** **Press and release the button.**
3. Immediately, unlock the vehicle with the factory remote. The TRANS TX LED will turn off.	**Unlock Vehicle. LED turns off.** **Wait for LED to turn on**
4. When the TRANS TX LED turns back on, lock the vehicle with the factory remote. The TRANS TX LED will turn off.	**Lock Vehicle. TRANS TX LED turns off.** **Wait for LED to turn on**
5. When the LED turns back on, press boot on the factory remote. If there is no boot, wait for the LED to turn back off.	**Open boot. LED turns off. NO boot then do nothing.** **LED stavs off**
6. Test the alarm will arm and disarm, and does not, arm and disarm when using your finger to manually lock/unlock the doors. Boot will disarm the alarm from armed state if connected.	**Test lock and unlock (and boot). The alarm (RAM, JAG or RAv2) should arm and disarm.**

NOTE: If purchased as a complete unit, you do not need to learn in the TRANS TX or activate TRANS TX mode.

Learn the TRANS TX into the alarm (RAM, JAG, RAv2)
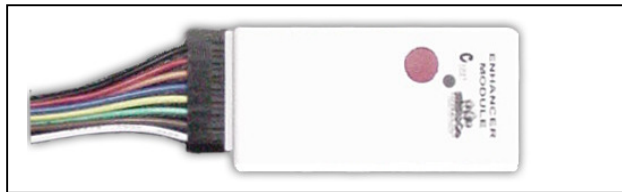
1. Turn the vehicle ignition on. Press and hold the centre button on the alarm remote control.	**Turn the vehicle ignition on and then press and hold centre button on remote control** Wait for LED to flash
2. When the alarm LED starts to flash immediately release the button on the remote control and press and hold the button on the TRANS TX module.	**Release remote control button and press and hold Transformer** Wait for LED to stop flashing **button**
3. When the alarm LED stops flashing release the button on the TRANS TX and turn vehicle ignition off.	**Release button and turn vehicle ignition off**
4. To test that the TRANS TX is learnt in successfully, disarm the alarm with the remote control and then press and hold the button on the TRANS TX module until the red LED turns on. The alarm will arm.	**Disarm the vehicle with remote. Press and hold Transformer button until LED turns on. The alarm will arm**

Activate TRANS TX Mode on the alarm (RAM, JAG, RAv2)

To activate TRANS TX Mode please refer to the relevant alarm's register programming instructions.

Notes for Installation

- Plug the wiring harness in to the module last, after all connections have been made.
- Check the vehicles electrical system thoroughly **before** commencing installation.
- The installation should be as well hidden as possible - to maximise the system security.
- **Solder** all connections, and then **insulate** with insulation tape.
- Use a **multi - meter** to verify any wires nature.
- Connect the harness to the TRANS TX module as shown below.
- Diodes: 1 Amp is 1N4004, 3 Amp is 1N5404.

IMPORTANT: **If the installer does not have a concise knowledge of the vehicle's electrical system, it is strongly advised not to aimlessly probe to find the necessary wires. Doing so may damage your vehicles electrical system. Consult with your vehicle's manufacturer, or a qualified Auto Electrician. Rhino accepts no responsibility if an installer wires the product incorrectly or damages the vehicle during installation.**

CONGRATULATIONS!
INSTALLATION IS NOW COMPLETE.

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