

Tire Pressure Monitoring System



Packing list

1	Wireless Handheld Monitor (Portable) (MA-TPM—HM)	
6	TireStat TM Sensor (MA-TPM—P3)	
1	Universal Transceiver (MA-TPM-UT)	
1	Handheld power cord (MA-TPM—HPC)	
1	Wireless Handheld Rechargeable battery (MA-TPM-HRB)	
1	Antenna (fixed) (MA-TPM-L)	

		
1	VELCRO (TPM-V)	
1	Spanner (TPM-ST)	
1	Display base (TPM—J)	
1	Transceiver power cable (TPM-TRC)	
1	Accessories bag	
4	Binding strip (TPM-B)	

The installation of system includes three parts:

- 1) Install handheld monitor in cab;
- 2) Install transceiver under the vehicle;
- 3) Install sensors on the tires.

The installation of handheld monitor:

- A. Open the battery cover at the back of the monitor and plug in the battery TPM—HRB;
- B. Use Velcro to fix the monitor at the proper position of the cab's dashboard, where users can easily observe it.



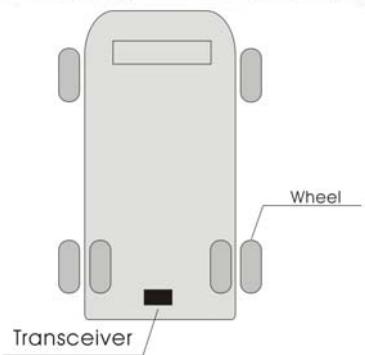
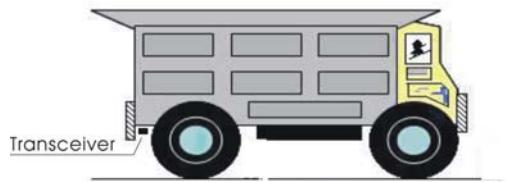
- 1) When using Velcro, be sure to clean the target's surface.
- 2) To guarantee the battery's life, for the first time usage, battery charging time should be more than 12 hours.
- 3) The battery will be recharged automatically once it's in low energy, provided that the monitor is still connected to the vehicle power; once the vehicle power is connected to the monitor, the battery's power will be cut off automatically. Once the vehicle's power is cut off, the monitor's battery power will start working immediately.

The placement of handheld monitor:



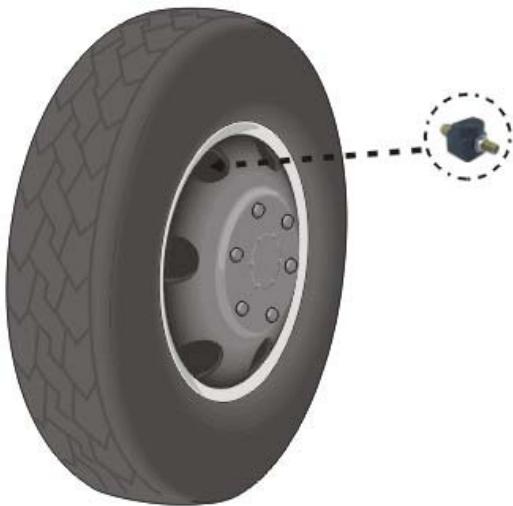
The installation of transceiver:

- A. Use the binding strip or screws to fix it to the bottom of the truck or trailer.
- B. Connect the power cable to power socket, red for 12/24V, black for ground.



The installation of sensors:

- A. Clean the tire's air nozzle;
- B. Remove the original cap of the air nozzle;
- C. Directly screw the sensor into the nozzle and lock the sensor if possible.



Front wheel sensor could be screwed into the valve stem directly.


System Startup/close

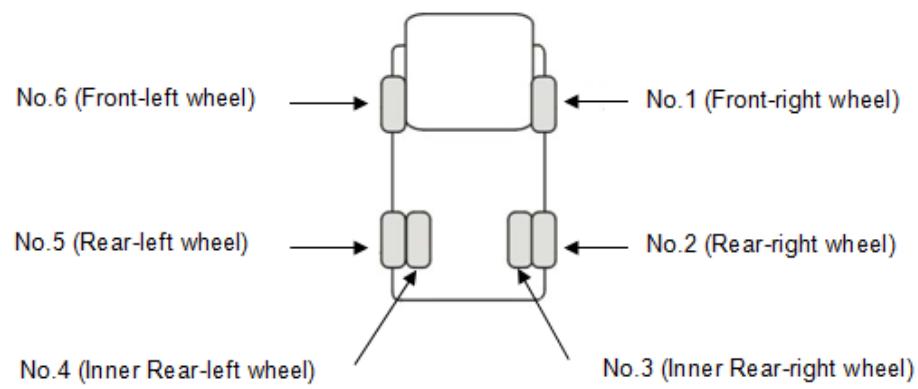
Startup---Press and hold the control button for 6 seconds to start up the monitor, it starts to display all the tires' data circulatorily. The Led always indicates green when there is no alarm.

Closedown---Press and hold the control button 6 seconds to shut down the monitor. The LCD background light should be turned off first if it's on.

Press the setup button once to turn on/off the LCD background light.



When the installation completes, it starts working. Press the control button to indicate each tire's air pressure and temperature one by one.



System warning

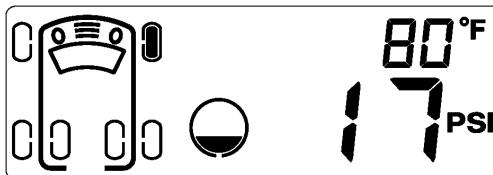
When the system detects abnormal tire's air pressure or temperature, the monitor indicates the following alarm status and data.

Instruction:

The alarm status will continue until the cause of the alarm disappears. When multiple alarms occur, higher priority alarm status will be shown first. For example, when high temperature and low pressure happen at the same time, monitor will indicate low pressure alarm (priority sequence is as follow). Open the background light and then press and hold the control button for 3 seconds to clear all alarms' indications. If abnormal situation continues, the alarm (s) indication will promptly show up again. For a driving vehicle, the alarm indication shows up again about every five minutes; for a parking vehicle, the alarm indication shows up again about every 2 hours (the monitor's battery starts working once the vehicle power is cut off). The system will continuously monitor the tires' status.

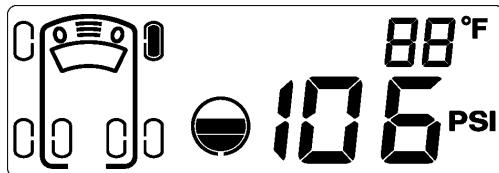
Tire's low air pressure alarm

When the tire's air pressure is lower than the preset value (highest priority), the Led flashes red once every 2 seconds continuously with 8 seconds sound alarm (beeps). Afterward, it lets out short sound alarm every 2 minutes (beep once).



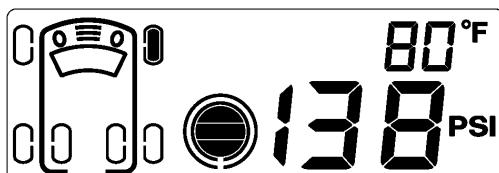
Tire's slow leak alarm

When the tire's air pressure leaks rapidly (3PSI drop every 10 minutes), the slow leak alarm will be triggered with the Led flashing **green** every 2 seconds (no sound alarm) continuously until the cause of the alarm disappears.



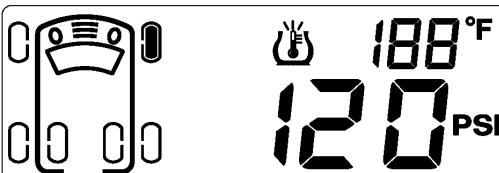
Tire's high air pressure alarm

When the tire's air pressure is higher than the preset value, the high air pressure alarm will be triggered with the Led flashing **green** every 2 seconds (no sound alarm) continuously until the cause of the alarm disappears.



Tire's high temperature alarm

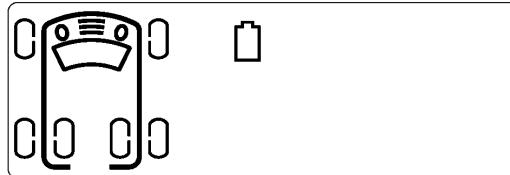
When the tire's air temperature is higher than the preset value, the high air temperature alarm will be triggered with the Led flashing **green** every 2 seconds (no sound alarm) continuously until the cause of the alarm disappears.



Handheld monitor

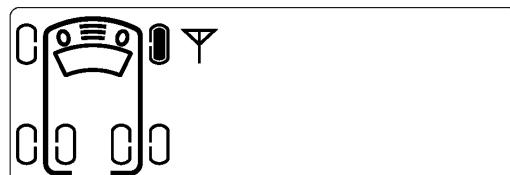
low battery alarm

When the handheld monitor is low in battery (10% left), the Led flashes **green** every 2 seconds (no sound alarm) continuously until the cause of the alarm disappears.



No sensor signal

When there is no sensor signal detected (low battery or broken sensor), the Led flashes **green** every 2 seconds (no sound alarm) continuously until the cause of the alarm disappears.



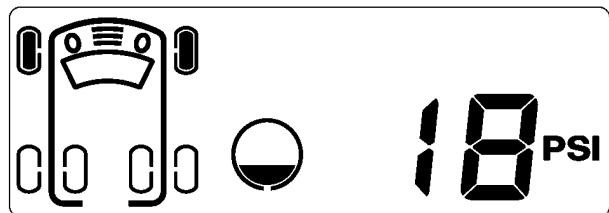
The programming of the alarm level.

Users can follow the procedures below to set the alarm level.

1. Press and hold the Setup Button and Control Button at the same time for 3 seconds to enter the Alarm Level Programming Mode, once it does, release the buttons.
2. The first icon is the front axle Low Pressure Alarm Level setting. Press the Control Button to modify, and then press the Setup Button to enter the next setup screen
3. The second icon is the rear axle Low Pressure Alarm Level setting. Press the Control Button to modify, and then press the Setup Button to enter the next setup screen.
4. The third icon is the front + rear axle High Pressure Alarm Level setting. Press the Control Button to modify, and then press the Setup Button to enter the next setup screen.
5. The fourth icon is the High Temperature Alarm Level setting. Press the Control Button to modify, and then press the Setup Button to enter the next setup screen.
6. The fifth image is the Temperature Compensation Level setting. Press the Control Button to modify, and then press the Setup Button to save and exit.
7. In any setup screen, pressing the Control Button adjusts the level setting.
8. To exit any setup screen, press the Setup Button. At the last alarm setup icon (temperature compensation), press the Setup Button to exit and save all the Alarm Level settings.

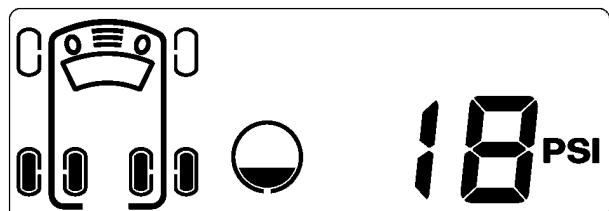
Truck's front axle low pressure alarm

Can be set from 18PSI to 140PSI.
Default alarm level is 80 PSI.



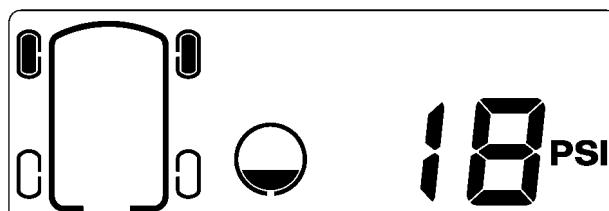
Truck's rear axle low pressure alarm

Can be set from 18PSI to 140PSI.
Default alarm level is 80 PSI.



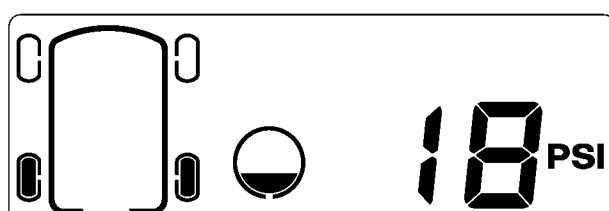
Trailer's front axle low pressure alarm

Can be set from 18PSI to 140PSI.
Default alarm level is 80 PSI.



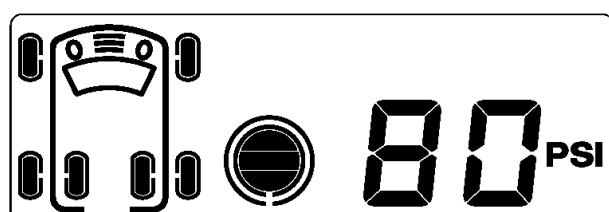
Trailer's rear axle low pressure alarm

Can be set from 18PSI to 140PSI.
Default alarm level is 80 PSI.



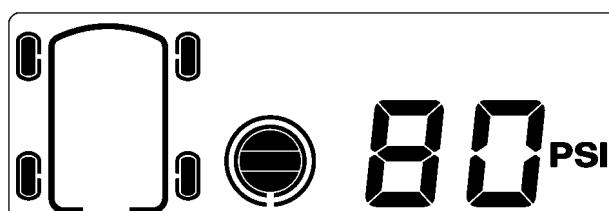
Truck's front and rear axles high pressure alarm

Can be set from 15 to 199 PSI higher than the low pressure alarm level.
Default alarm level is 140 PSI.



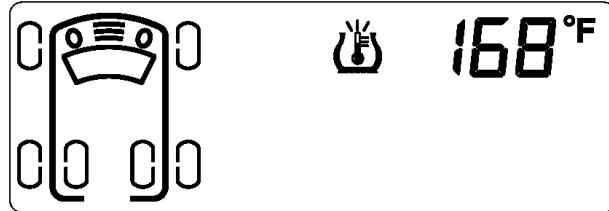
Trailer's front and rear axles high pressure alarm

Can be set from 15 to 199 PSI higher than the low pressure alarm level.
Default alarm level is 140 PSI.



Truck and trailer's high temperature alarm

Can be set from 158F to 230F.



Pressure compensation

Can be set from -0 to -9 or from 0-9



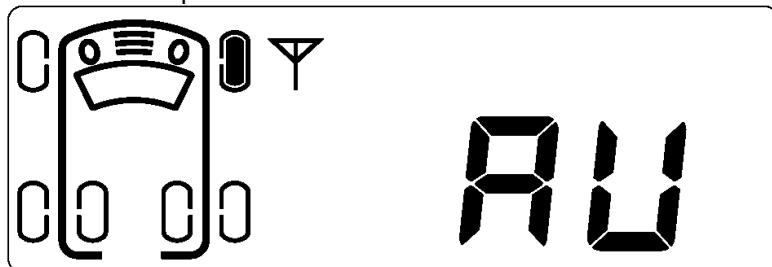
! **It's recommended that low pressure alarm level should be at least about 20-30PSI less than tire's standard air pressure. The Pressure compensation is recommended to set -0.**

System reprogramming after changing the tire.

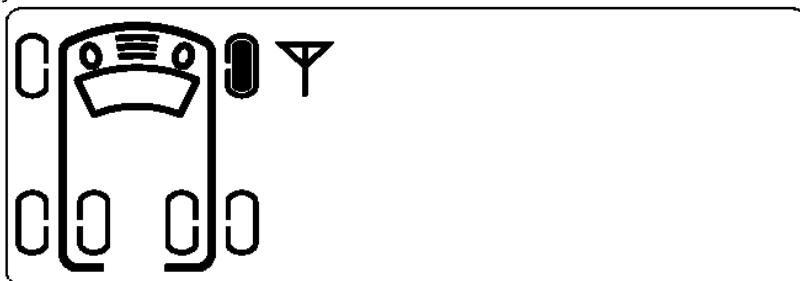
After the vehicle is driven for a period of time, in order to prolong tire life, rotate tires according to the manufacturer's instructions. If this is done and the sensor locations are changed, you must reprogram the TPMS system.

The procedures are as follow:

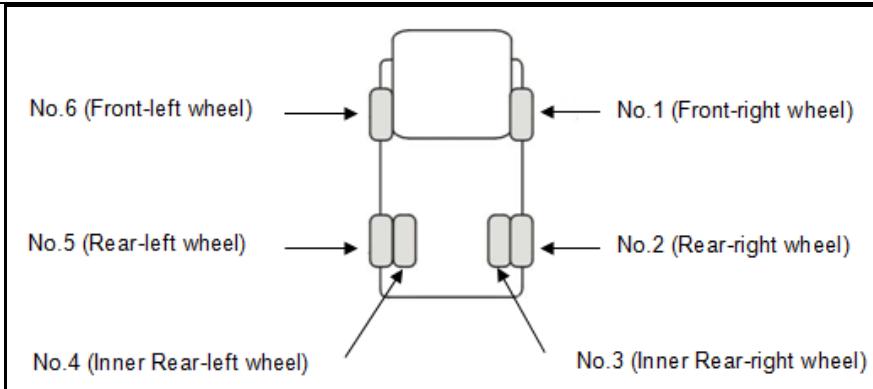
A. Press and hold the Setup Button and Control Button at the same time for 6 seconds, the system enters the Tire Setup Mode



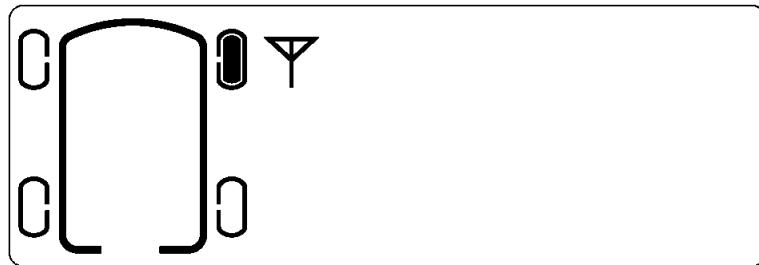
B. Release both buttons; then press the Control Button, the letters "AU" will disappear from the display screen.



C. Press the Setup Button, the front-right side tire icon (No.1) begins flashing, release about 0.3Bar (3 PSI) of air from the No.1 tire in order to trigger that sensor to send its ID number. Upon receiving the signal, the system will set that tire as front-right (No.1). The No. 1 tire icon will turn solid and the rear-right tire icon (No.2) begins flashing. Proceed with letting air out of tire No. 2, it will send a signal with the No. 2 ID location as above. The system default setting sequence is: No.1, No.2, No.3, etc. After successfully setting all the tires, the display will sound a "beep" for 8 seconds. After which, the system will save and exit the Tire Setup Mode automatically.



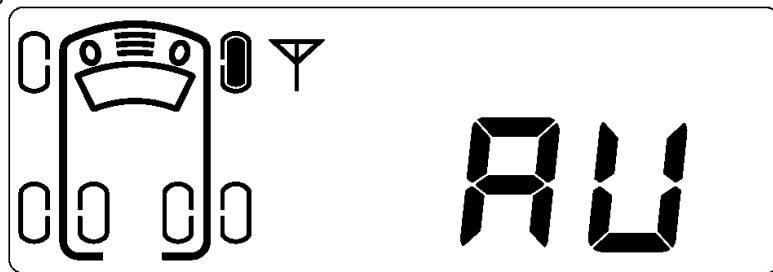
D. After we save and exit the setting of the truck, press the control button to enter the trailer tire sensor programming. The procedures are the same as the above truck tire sensor programming.



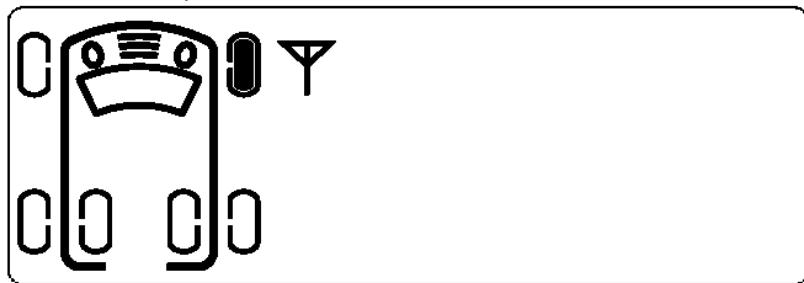
E. After completion, refill all the tires to proper air pressure levels. If there is no need to change an individual tire location, then when the tire icon flashes at that position, press the Control Button to switch to the next tire icon. Press the Setup button to exit the programming status and save all the preset data.

The display mode setting

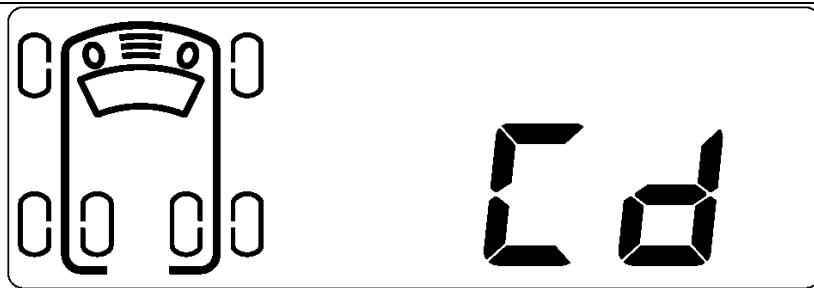
A. Press and hold the Setup button and Control button at the same time for 6 seconds to enter the setting status.



B. Release both buttons, press the control button.



C. Press again the control button.

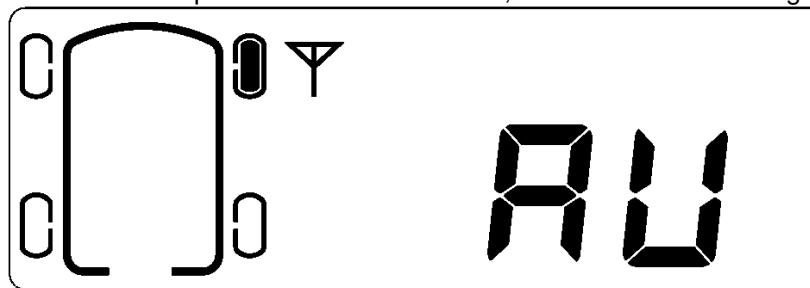


At this interface, press the setup button to select hide or display mode.

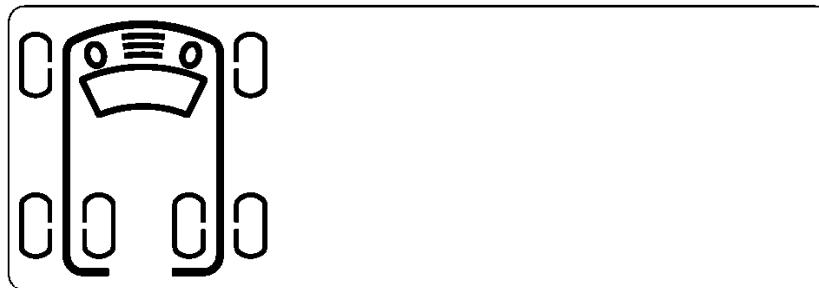
The selection of trailer's display mode.

When we program the trailer sensors, we can select to display trailer or truck.

A. Press and hold the setup button for three seconds, it indicates the following icon.



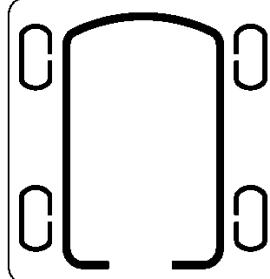
B. Press once the control button to select the truck's indication. Press setup button to confirm.



C. Press once the control button when B indication shows up to choose not to display the truck sensor's icon. Press setup to confirm.



D. Press again the control button to select the trailer sensor's indication. Press setup to confirm.



E. Press again the control button to choose not to display trailer sensor's icon. Press setup button to confirm.



The above indication images will all exit after pressing the setup button to confirm.

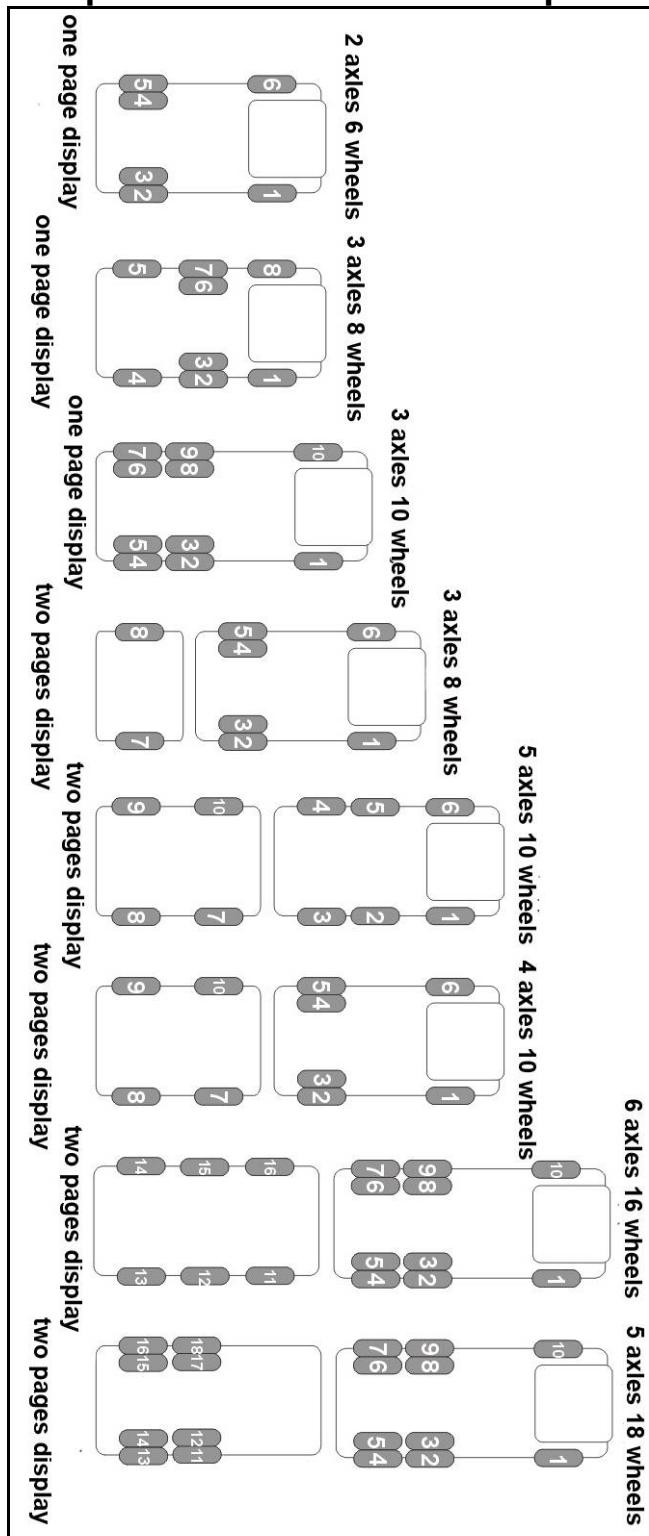
- Press the setup button once to turn on/off the background light.
- Press the Setup Button once (activates the background light), then press and hold the Control Button for 3 seconds to clear all indications.
- Press and hold the Control Button and Setup Button for 3 seconds to enter the Alarm Level Programming Mode.
- Press and hold the Control Button and Setup Button for 6 seconds to enter the Tire Setup Mode to set any repositioned tire levels or setting the display modes.
- Press and hold the Setup Button for 3 seconds to decide displaying trailer or truck indications.
- The battery will be recharged automatically once it's in low energy, provided that the monitor is still connected to the vehicle power; once the vehicle power is connected to the monitor, the battery's power will be cut off automatically, leaving the outer power (vehicle etc) to operate. Once the vehicle's power is cut off, the monitor's battery power will start working immediately.

SAFETY & USE PRECAUTIONS:

1. Clean the valve stem threads prior to installation to prevent damage to sensor fittings.
2. Do not attempt to tamper with the parts in the sensor; it will void the warranty and disrupt the function of the system.
3. Do not attempt to fill the tires with any chemicals such as leak-proof compounds. Mobile Awareness, LLC is not responsible for sensor malfunction that results from the use of this or any other chemical used inside the tire.
4. Do not allow yourself to be distracted by utilizing the setup button to check tire status while driving. This device is designed to alert the driver if tire pressure or temperature reaches a warning threshold. Distracted driving is extremely dangerous; maintain 100% of your attention on the task of driving.
5. This product is meant to aid the driver by monitoring the pressure and temperature on the vehicle tires. It is not designed to control or prevent accidents. The safe operation of any

motor vehicle is the strict responsibility of the driver.

Tire positions and their corresponding numbers.



FCC Compliance

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.
- In order to maintain compliance with FCC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment.

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.