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APS401W Series 2  
12/24V WIRELESS PARKING SENSOR SYSTEM

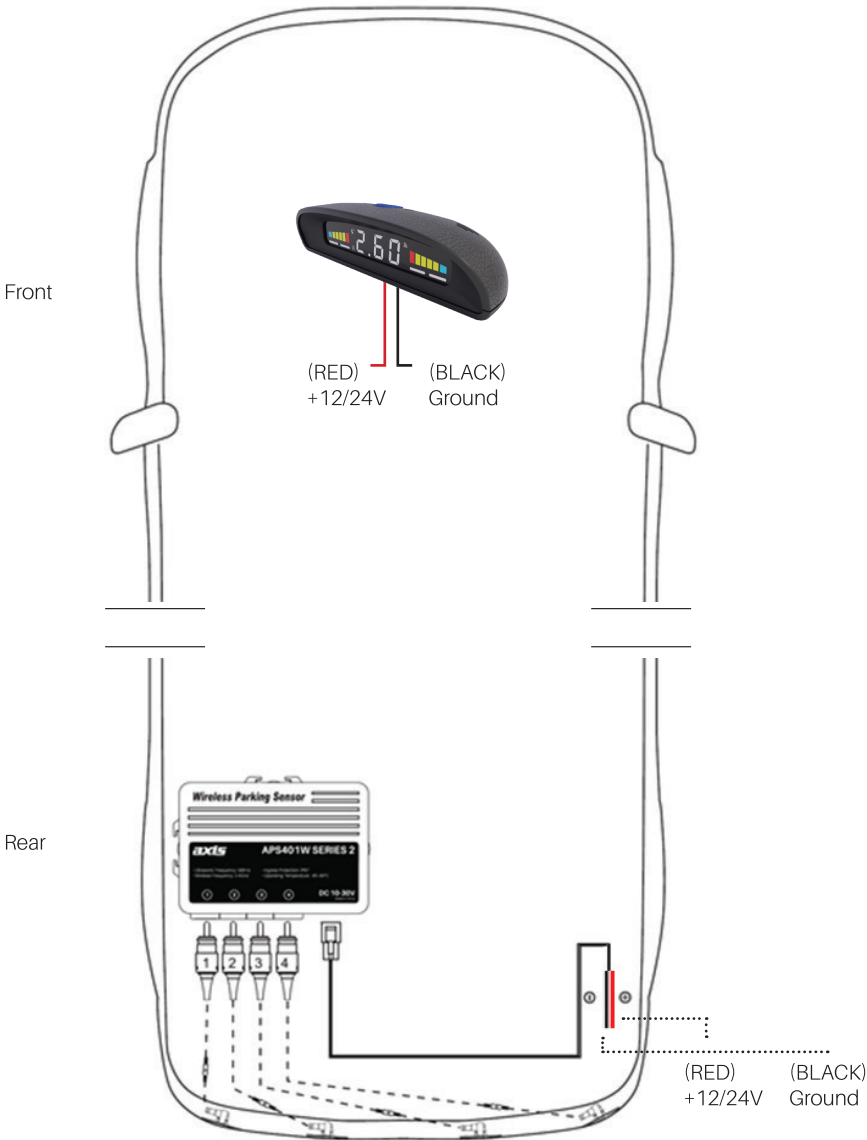
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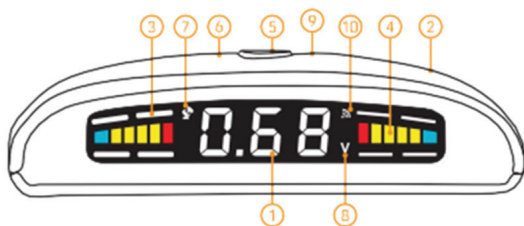
## CAUTION


1. Please read this manual carefully before using the product.
2. Test the system after installation to check that the system is functioning correctly.
3. False alarms can be caused by interference with sound sources like horns and compression brakes.
4. Your reverse speed should be less than 5 KM/h. No matter how effective a reverse parking system is, if you reverse too quickly, accidents will occur.
5. This system is designed to be an aid and should not replace the need to drive carefully.

# COMPONENT LOCATION AND WIRING SCHEMATIC

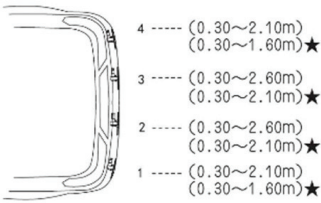


## DISPLAY & FUNCTIONS



- 1) Distance metric: The distance measured in meters between the rear of the vehicle and the nearest obstacle.
- 2) Buzzer: Sounds an audible alarm at set intervals when an obstacle is in range. The alarm repetition speed increases as the distance from the obstacle decreases.
- 3) Sensor icons: Each white bar represents one of the four sensors. If any of the sensors are not detected, then the corresponding bar will not be illuminated. While an obstacle is in range, the bar corresponding to the sensor with the closet proximity to the obstacle will blink to show the direction of the obstacle.
- 4) Distance graph: The bars on the colour graph represent the distance between the sensors and the obstacle. See page 6 for a detailed description of this graph.
- 5) Function button (power symbol): Used for adjusting the detection range of each sensor. See page 6 for more details.
- 6) Volume button: Press repeatedly to cycle through the volume levels from 0 (mute) up to 8 (maximum volume).
7. N/A
8. Voltage icon: The supply voltage is displayed for 3 seconds after the system is powered on.
- 9) Pair button: To pair the module to the monitor, put the vehicle into reverse, then press the pairing button with a pin to activate pairing mode. The monitor will display **ooo** and beep twice,  is displayed, then the module has successfully paired to the monitor.
- 10) Signal icon: This icon will be displayed while the monitor is receiving a signal from the module.

# MAXIMUM DETECTION RANGE AND WARNING CHART



★ factory default

		Distance (m)	0	0.30	0.60	0.90	1.10	1.30	1.60	2.10	2.60	
Distance display	Rear Centre 2,3	-P-	0.30~2.60								---	
	Rear Sides 1,4	-P-	0.30~2.10						---			
Zone caution	Rear Centre 2,3	■■■■■ ■■■■	■■■■■ ■■■■	■■■■■ ■■■■	■■■■■ ■■■■	■■■■■ ■■■■	■■■■■ ■■■■	■■■■■ ■■■■	■■■■■ ■■■■	■■■■■ ■■■■	■■■■■ ■■■■	
	Rear Sides 1,4	■■■■■ ■■■■	■■■■■ ■■■■	■■■■■ ■■■■	■■■■■ ■■■■	■■■■■ ■■■■	■■■■■ ■■■■	■■■■■ ■■■■	■■■■■ ■■■■	■■■■■ ■■■■	■■■■■ ■■■■	
Sound Warning	Rear Centre 2,3	Constant Tone	Faster Beep	Fast Beep			Normal Beep		Slow Beep		No Beep	
	Rear Sides 1,4	Constant Tone	Faster Beep	Fast Beep			Normal Beep		Slow Beep	No Beep		

## SENSOR DETECTION RANGE

The minimum and maximum detection range of each sensor can be adjusted. Adjusting the minimum detection range will prevent false alarms caused by tow bars, spare wheels and other objects protruding from the rear of the vehicle.

## MAXIMUM DETECTION DISTANCE ADJUSTMENT

Press and hold the function button and power up the monitor to enter the maximum detection range adjustment mode. Press the volume button repeatedly to cycle through each sensor, then press the function button repeatedly to increase the maximum detection distance in increments of 0.1 meters. Once the settings have been adjusted, power down the system to save the new settings.

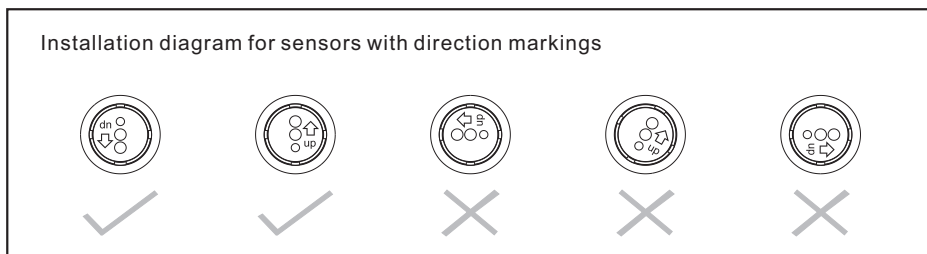
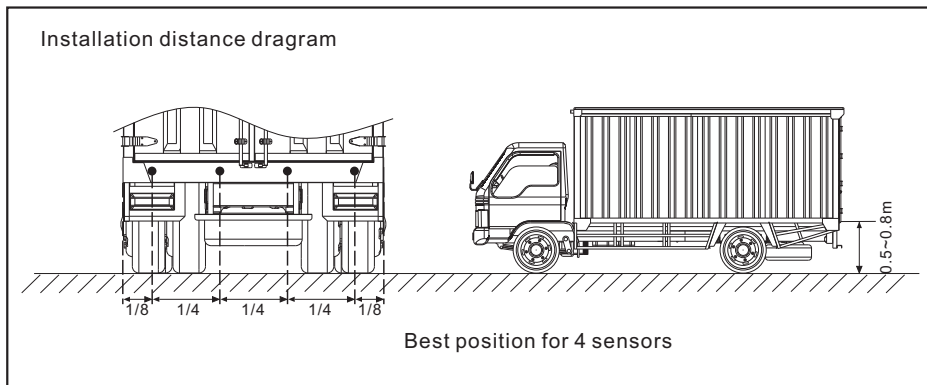
## MINIMUM DETECTION DISTANCE ADJUSTMENT

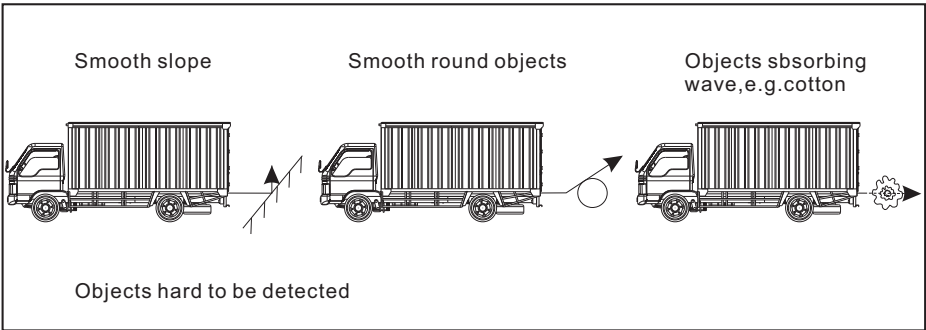
Press and hold the volume button and power up the monitor to enter the minimum detection range adjustment mode. Press the volume button repeatedly to cycle through each sensor, then press the function button repeatedly to increase the minimum detection distance in increments of 0.1 meters. Once the settings have been adjusted, power down the system to save the new settings.

## RESET FACTORY DEFAULT SETTINGS

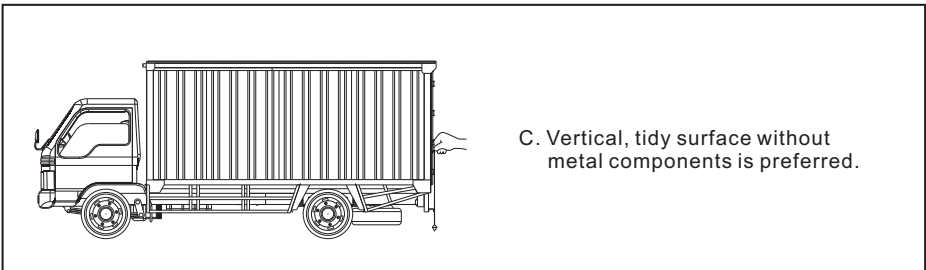
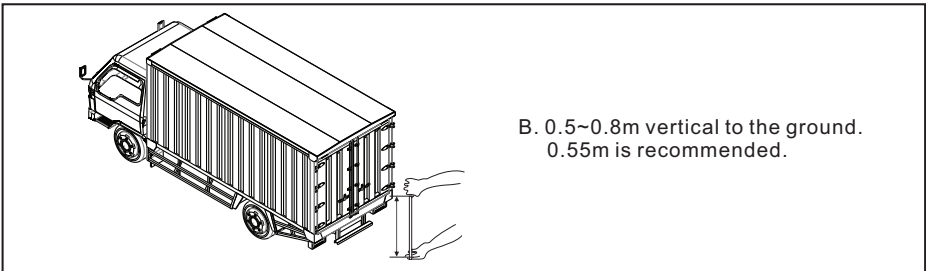
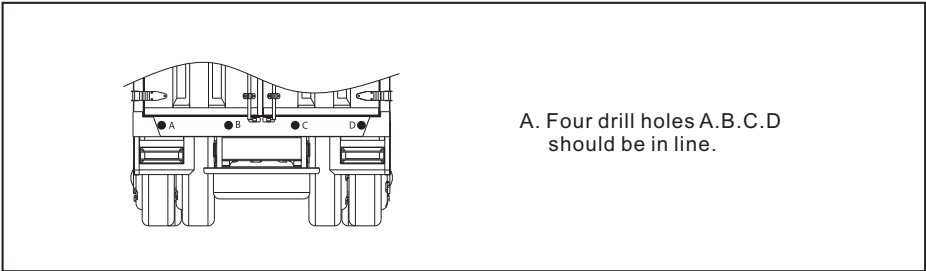
While the system is powered down, press and hold the pair button and power up the monitor, the monitor will beep three times, indicating that the reset was successful and the settings have been changed back to the factory default settings.

# SENSOR INSTALLATION DIAGRAM

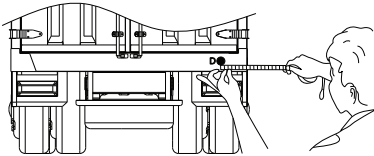




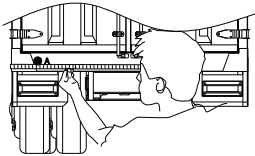
## ADVISED POSITION TO INSTALL THE SENSOR



## SELECT DRILLING POSITION FOR SENSOR A & D

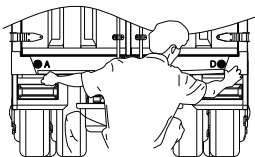


A. Choose suitable drilling positions for A and D sensor and mark.

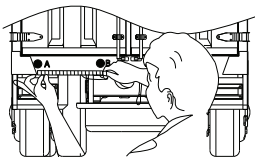


For best detection angle, position A & D sensor 1/8 from the edge.

## SELECT DRILLING POSITION FOR SENSOR B & C



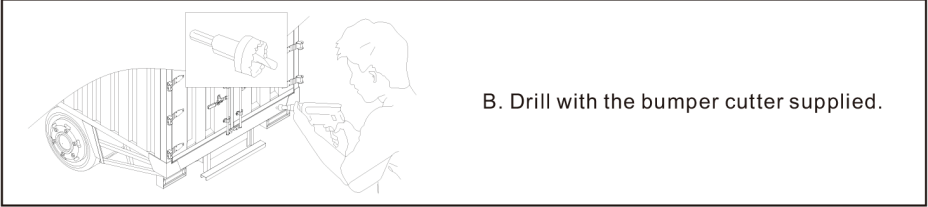
A. Measure the distance between sensor A and D.



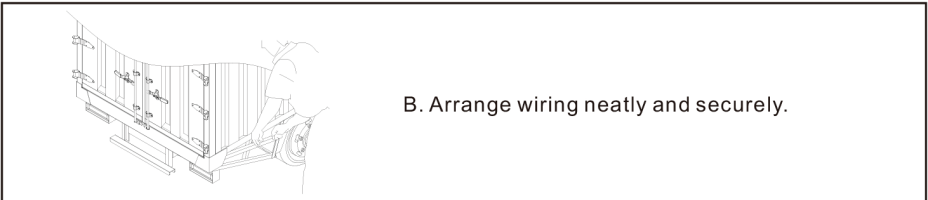
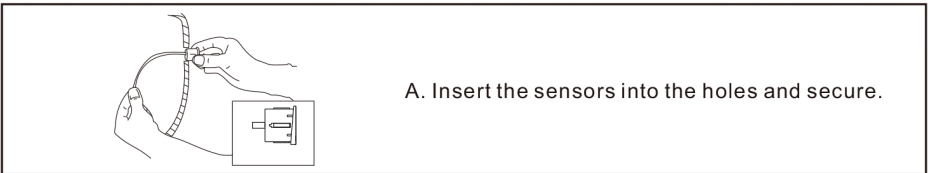
Divide distance by 3 and mark sensor B & C.



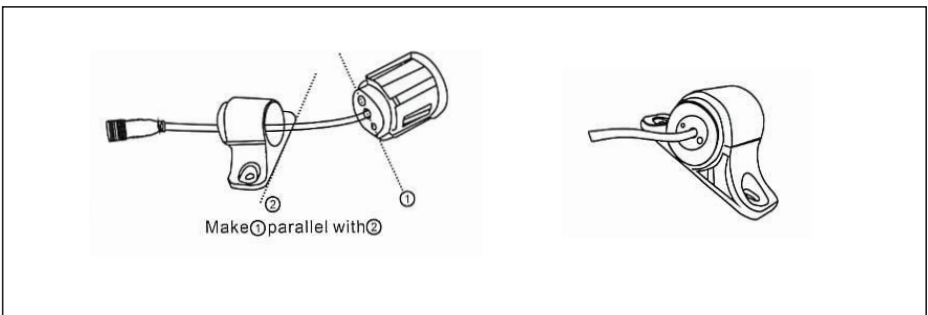
## DRILLING



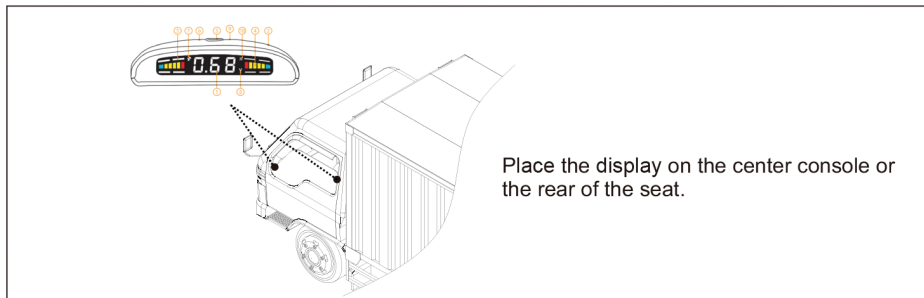
## SENSOR INSTALLATION



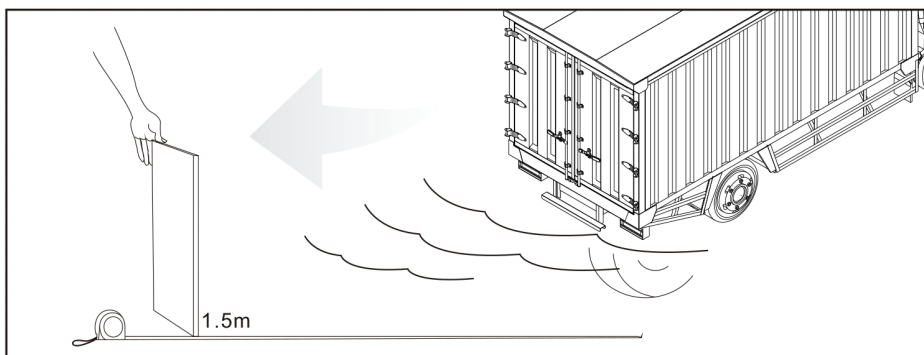
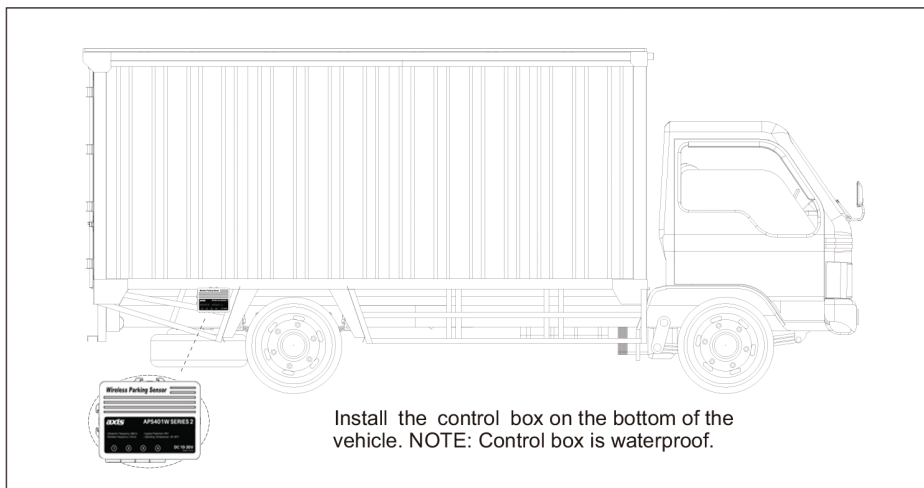
## BRACKET DIAGRAM



## DISPLAY INSTALLATION



## CONTROL BOX INSTALLATION



## TROUBLE SHOOTING

Problem	Cause	Remedy
Displays no reading when reversing	a. Poor ground connection b. No signal c. The fuse is blown.	a. Properly ground black wire b. Move the module to a location with fewer obstructions c. Replace with same size fuse
Monitor constantly displays "-p-" at all times, even when no obstacles are behind the vehicle	An object protruding from the rear of the vehicle is being detected.	Adjust the minimum detection distance in the settings. (see page 7 for more details)
Constantly displays a fixed distance at all times.	The ground is being detected.	Adjust the position or angle of the sensors. Adjust the maximum detection distance in the settings (see page 7 for more details)
One of the sensor indicators is not illuminated on the display	The sensor or cable is not connected properly.	Check the connections between the sensor and the module.

# SPECIFICATIONS

## GENERAL

- Detection Range: 0.3-2.6m
- Rated Voltage: 12/24V DC
- Operating Range: 10-30V DC
- Operating Current: 130mA @ 12V

## LED DISPLAY

- Proximity Alert: Visual Direction & Indicators
- Audible Buzzer: Yes
- Mute Function: Yes
- Dimensions: 108W x 30H x 51Dmm
- Range Adjustment: Min - Max Towbar / Spare Wheel

## CONTROL BOX

- Water Resistance: IP67
- Wireless Range: Wireless Range: Up to 30m
- Power Leads: 1.0m

## SENSORS

- Sensor Type: Angled
- Sensor Size: 22mm
- Sensor Dimensions: 25.6W x 25.5H x 22Dmm
- Sensor Cable Length: 0.15m Fly Lead + 2.4m Extension Lead
- Sensor Installation: Under Mount or In-Bumper Mount
- Detecting Distance: 0.3 - 2.6m
- Ultrasonic Frequency: 58KHz
- Working Temperature: -40° to +80°C
- Water Resistance: IP68
- Under Mount Dimensions: 70Wx37Hx30Dmm

## INCLUDES

- 1 x Control Box
- 4 x Sensor
- 4 x Bracket with Pads
- 4 x 2.4m Sensor Extension Leads
- 1 x Wireless LCD Display
- 1 x Ø22mm Drill

# NOTES

# NOTES

# NOTES

# WARRANTY

Congratulations on your purchase of a quality **axis** Mobile Safety System! You're joining thousands of satisfied customers who enjoy & experience the benefits of the products we distribute. In the unlikely event that some technical difficulty arises with your purchase, be assured that we are most anxious to see that the problem is quickly rectified to your satisfaction. Please familiarise yourself with the following simple conditions of our warranty. This warranty covers faults through component failure or failure of the product to operate in accordance with published specifications. Product failure as a result of unreasonable environmental conditions, accident, misuse, improper installation, unauthorised repair, vehicle electrical or wiring faults or neglect etc, will not be covered by this warranty. Removal and installation costs, if any, would be paid by the owner as well as any freight or postage costs of transporting the product to AudioXtra. AudioXtra shall not be liable or responsible for any loss of use of this product or any form of consequential loss.

## CONSUMER WARRANTY

This product is warranted by AudioXtra Pty Ltd to be free from defects in materials and workmanship under **NORMAL USE** for a period of **TWENTY FOUR MONTHS** from the date of purchase.

### WITHIN 30 DAYS OF PURCHASE DATE:

Please return the unit for replacement to our National Service Centre or the Retailer from where you made the purchase. All accessories must be included. Proof of purchase date **must** accompany the products.

### AFTER 30 DAYS OF PURCHASE DATE:

Warranty repair and service is carried out by our National Service Centre. Repair and service will be carried out at no cost to the owner if proof of ownership and the date of purchase can be verified to the satisfaction of the authorised centre concerned with this repair. This proof should take the form of either:

- The warranty card accompanying this product, stamped and dated by the dealer.
- A Tax Invoice or Receipt showing full details of original vendor, purchaser, model number and serial number.

## COMMERCIAL WARRANTY

A product used in or associated with a commercial application will carry a limited SIX MONTH warranty. An abnormal commercial application is one where usage, dust, vibration, heat/cold and other environmental conditions exist at an extreme level.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Please complete details below in the event of warranty service being required.

**Purchaser's Name:** \_\_\_\_\_

**Purchaser's Address:** \_\_\_\_\_

**Model Number:** APS401W Series 2      **Serial Number:** \_\_\_\_\_

**Dealer Name:** \_\_\_\_\_      **Date of Purchase:**    /    /

**Dealer Address:** \_\_\_\_\_

**Invoice/Sales Docket no:** \_\_\_\_\_

General Hints: To expedite service and prompt return of the equipment, please:

- Clearly describe the fault in detail
- Safely and securely pack the unit for transport
- Include your return address
- Provide proof of purchase date as outlined above

### National Service Centre:

10 STODDART ROAD, PROSPECT, SYDNEY NSW 2148 Australia  
Telephone: (02) 8841 9000 Fax: (02) 9636 1204  
email: services@audioxtra.com.au

