

# AutoStop Maxi

## In Vehicle Brake Tester



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# AUTO TEST

Products Pty Ltd®



## DECLARATION OF CONFORMITY

We, AutoTest Products Pty Ltd. declare under our sole responsibility that the product AutoStop Maxi is in conformity with the provisions of the following Council Directive: 1999/5/EC.  
A copy of the Declaration of Conformity can get it from [sales@autotest.net.au](mailto:sales@autotest.net.au).

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## 1. UNPACKING AND FIRST TIME USE

Congratulations on your choice of an AutoTest Brake Meter. Please take the time to read this User's Manual before using the AutoStop Maxi Brake Meter in the field. Incorrect or inappropriate use of this instrument may void the warranty. Retain the packing materials for future shipping and transport of the unit for periodic calibration. Please complete the warranty registration card and post it to AutoTest Products Pty Ltd, alternatively visit our website [www.autotest.net.au](http://www.autotest.net.au) and complete your warranty registration online. Your warranty registration ensures that you are kept up to date on any software or hardware changes to your AutoStop Brake Tester. The packing box of your AutoStop Maxi should contain the following:

1. AutoTest Brake Meter, Model AutoStop MAXI, complete with Pedal Sensor
2. Long strap for restraining Brake Meter Unit Case
3. Battery Charger
4. User Manual
5. Warranty Registration Card
6. Calibration Certificate

### 1.1 Activating your meter

Initially, each meter is locked prior to its shipment. So, before you can perform any brake tests, you must first activate your meter.

**Step 1:** Switch on meter by **holding down** the On/Off button;

**Step 2:** Wait for the scrolling prompt ">Examiner ID? (Y/N)", then press the "Yes" button.

**Step 3:** Next, a scrolling message "**SENSOR CHECK - Please take foot off pedal sensor...**" should appear, press the "Yes" button to move onto the next screen.

**Step 4:** At this point, you should see "**Ready>**" on the screen. Press "A" to enter the activation menu.

**Step 5:** In the activation menu, press "Y" in response to the prompt "> **Meter is currently LOCKED. Activate meter? (Y/N)**";

**Step 6:** Instructions on how to activate the meter should be scrolling across the screen at this point. Press the "Yes" button to begin the activation sequence.

**Step 7:** At the prompt "**Code:** ", enter the 5-digit serial number of your brake meter (which is printed to the left of the On/Off button) and press "Yes";

**Step 8:** Upon entering the correct serial number, you should see "**Meter Activated!**" on the display. Now the Test menu is accessible from the "Ready>" prompt by pressing "R".

**Note:** The activation process is a one-time procedure, after which the meter cannot be locked again.

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## 1.2 Selecting Region

If you are using the brake meter in Queensland, New South Wales, or Victoria, please set your region in the meter so that the unit settings and test compliance code is automatically set for your state. To set the region, please press "J" from "Ready>" screen. When the meter prompts for region ("Region: "), use "U" and "D" keys to scroll through the list. When the desired region appears on the screen, press "YES" or "Enter" to save it. Once the region is set, the meter will

## 2. For Your Safety

Read these simple guidelines. Not following them may be dangerous. Read the complete user guide. Further detailed information is given in this manual.



### SWITCH ON SAFELY

Do not switch the device on when wireless device use is prohibited or when it may cause interference or danger.



### SWITCH OFF WHEN REFUELING

Do not use the device at a refuelling point. Do not use near fuel or chemicals.



### SWITCH OFF NEAR BLASTING

Follow any restrictions. Do not use the device where blasting is in progress.



### USE SENSIBLY

Use only in the positions as explained in the product documentation.



### QUALIFIED SERVICE

Only qualified personnel may install or repair this product.



### ACCESSORIES AND BATTERIES

Use only approved accessories and batteries. Do not connect incompatible products.



### WATER-RESISTANCE

Your device is not water-resistant. Keep it dry.



### CONNECTING TO OTHER DEVICES

When connecting to any other device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

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### 3. USE OF BATTERY CHARGER AND CARE OF BATTERY

AutoStop Maxi is fitted internally with a long-life 12 volt, fully sealed, rechargeable lead acid battery, which must be charged for up to 10 hours before initial use. The battery charger input is located to the right of the printer. With proper care and use, the battery should last between two and five years.

It is recommended to recharge the battery nightly if the Brake Meter is used regularly. Only an approved battery charger with the correct voltage, waveform and terminal polarity should be used. The battery must never be allowed to fully discharge as it will void the warranty.

The battery should always be recharged if the battery voltage falls below 12 volts. As a guide, if the Brake Meter is used for one to two tests per day, the battery should be recharged weekly. If the Brake Meter is used more frequently, the battery should be recharged daily.

The AutoStop Maxi is fitted with a low voltage cut-out switch in the circuitry to protect the battery from excessive discharge. If the battery is allowed to discharge to zero (0) volts, and left standing for a long period of time, severe sulfation would occur, raising the internal resistance of the battery to abnormally high levels. In such extreme cases, the battery may not accidental battery damage.

### 4. OPERATION

#### 4.1 Options: Changing & Viewing

To view or change items, ensure the Brake Tester is in the ready mode. "Ready>"

To:	Press	Screen Display
Select Region: VIC, NSW, QLD	From the Ready> position, press "J"	<b>Region: [VIC] [NSW] [QLD]</b>  When LCD displays "Region: ____", press "U" or "D" or "J" to select a different region. Once the desired region has been selected, press YES or "ENTER" to save it.  When the region has been changed, the brake meter will automatically update the accelerometer unit and compliance code for the selected region.
Set Graph Mode	From the Ready> position, press "X", then press "G"	<b>Print Graph:</b> can be toggled between 1 and 0 by pressing "G" 1 = On - print the graph with test 0 = Off- don't print the graph with test. Press "Enter" to return to Ready>  Note: you need to add password to enable the graph, for that please contact Autotest Service if you want to see the Graph in the print.



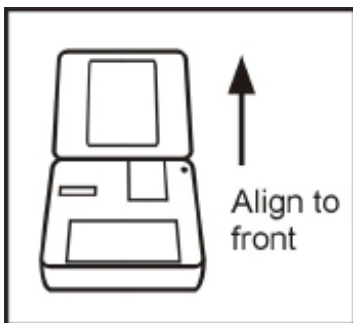
## 4.1 Options: Changing & Viewing

To:	Press	Screen Display
Change from Imperial to Metric	From the Ready> position, press "X", then toggle "I"	<b>Imperial:</b> can be toggled between 1 and 0 by pressing "I" 1 = Imperial, 0 = Metric Press "Enter" to return to Ready>
Set Acceleration unit	From the Ready> position, press "X", then toggle "A"	<b>Accel:</b> Can be toggled between %, g and m/s <sup>2</sup> by pressing "A" Press "Enter" to return to Ready>

## 4.2 Test Conditions & Test Area

While the vertical angle of the Brake Meter will be automatically calculated and compensated for prior to testing, the greatest accuracy will be obtained when the Brake Meter is level to the surface of the road. Therefore, the area used for the test should be as flat as possible. The head wind should be less than 10kph.

## 4.3 Set-Up in Vehicle



AutoStop Maxi must be secure during the entire duration of the test. Misalignment or movement can cause lower (worse) deceleration readings. This could mean test failure if the brake performance is close to the required limits. Secure Maxi in a level or horizontal position in the vehicle with the lid open and facing forward. To prevent movement, use the long strap provided by wrapping it around the brake tester and the passenger seat. Another method is placing a sand bag behind Maxi, thus holding it against a firm surface. Attach the pedal sensor to the brake pedal.



Top view of secured Maxi position in passenger seat.



Side view of secured Maxi position in passenger seat.

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## 4.4 Running the Test

**Note:** The vehicle must be stationary (at a complete stop) prior to commencement of the test. Ideal conditions are to test the vehicle at a location where other vehicles are not present. However, if it is necessary to use another area, such as a public road, only commence the test if no other vehicles are in the area and there is no danger of an accident.

When the Brake Meter and the pedal sensor are both properly secured, turn the unit on and follow the instructions in Section 4.6.

If an incorrect keystroke entry is pressed at any time, press the back-arrow key to erase and then re-enter the correct keystrokes. The “beep” signal indicates the key has been properly pressed and has registered on the display.

## 4.5 Special Characters

By using the following procedure you may obtain the following Special Characters: To obtain the following characters, press the “-” key, then press the listed character to obtain the special character.

Press “-” and HOLD, then Press:	Displayed Character	Press “-” and HOLD, then Press:	Displayed Character
A	!	N	,
B	”	O	/
C	#	P	0
D	\$	Q	1
E	%	R	2
F	&	S	3
G	'	T	4
H	(	U	5
I	)	V	6
J	*	W	7
K	+	X	8
L	,	Y	9
M	-	Z	:



## 4.6 Test Instructions Summary

Step	Initial Screen Display	Instruction	Keys to Press	Final Screen Display
1	Blank Screen	Switch On	"On / Off "	AutoTest MAXI Brake Test Unit Software version no - Cal Due Date - Examiner ID ? Y/N
2	Examiner ID? Y/N	To retain ID ( identification of examiner ) as listed, press YES or "Y" To alter the ID, press "N"	"Y " or "N"	If N is pressed the meter will prompt New ID: (Step 3), if Y is pressed the meter will move on to Sensor Check (Step 4)
3	New Examiner ID	To Change ID : Enter your personal Examiner ID ( any alpha / numeric key entry up to 19 digits )	Press the digits of your examiner ID ( max 19 digits ) then press "Yes"	Scrolling message regarding pedal sensor Auto Zero. Sensor Check-Take Foot off Pedal Sensor and Press Any Key.
4	Ready		"R"	Rego no ?
5	Reg. No?	Enter the vehicle ID Number.Up to 19 alpha / numeric characters may be entered. Example VIN No. - CompanyID No. - License Plate No.sensor.	Press the digits of the vehicle registration, VIN, or other designated numbers and then press "Yes"	Srvc/Emrg? S/E
6	Srvc/Emrg? S/E	Enter "S" if the service brakes are to be tested, or enter "E"if the emergency brakes are to be tested. Entering "E" bypasses the pedal sensor and no brake pedal pressure will be recorded or printed. "E" is also used when testing parasitic braking devices such as retarders.  Note: An emergency test is similar to a pendulum type brake test.	Press "S" or "E"	Start, Abort? S / A

## 4.6 Test Instructions Summary (cont'd)

Step	Initial Screen Display	Instruction	Keys to Press	Final Screen Display
7	<b>Start, Abort?</b> <b>S / A</b>	Start or Abort the test. At this point there should not be any load on the pedal sensor. Pressing "S" will begin measurements and unit will await start criteria's such as deceleration and pedal pressure. Pressing "A" will abort the test.	Press "S" or "A"	<b>Prelude</b> (if the S key is pressed). <b>Ready&gt;</b> (if A key is pressed).  If the Brake tester is not sufficiently level after pressing "S", the following message will flash onto the screen, together with several warning beeps: <b>Slope too large, adjust unit.</b> The LCD will then return to Ready>
8	<b>Prelude</b>	The Brake Tester is ready to start recording. If the vehicle is at stop, release the brake and gently accelerate the vehicle to the required speed. Apply the brakes by pressing on the pedal sensor attached to the brake pedal ( or by using the emergency brake. ) For Service Brakes, the test is triggered when the pedal sensor detects a load greater than 40 Newtons followed by the vehicle decelerating by more than 0.1g. (Note : both must be met.) For emergency brakes, the test is triggered only by the vehicle decelerating by more than 01g.  If the vehicle is in motion, you may gently accelerate to the required speed and follow the same instruction as above.		Calculating.....  If data logger is fitted screen will display Save Y/N? Otherwise straight to Print Y/N?

## 4.6 Test Instructions Summary (cont'd)

Step	Initial Screen Display	Instruction	Keys to Press	Final Screen Display
9	Save Y/N	<p>If the Datalogging option is not installed, this will not appear, and the LCD will move directly to "DUPLICATE Y/N".</p> <p>If the Datalogging option is installed, you have the option to save the test by pressing "Y"</p>	Press "Y" or "N"	<p>If the memory is full, it will not save and will display: <b>"Not Enough Mem."</b>.</p> <p>If it is not full and the "Y" is pressed, it will save test. If "N" is pressed, the test will not be saved. In either case the LCD will show <b>Print Y/N</b></p>
10	Print Y/N	Allow the report to be printed.	Press "Y" or "N"	<p>If "Y" the LCD will show "Official Copy". The unit will begin to print and LCD will then show Normalising as it calculates data for graph presentation. As it prints the graph, the LCD will show Graph. The LCD will now show Duplicate.</p> <p>If "N" the unit will return to Repeat Y/N</p>
11	Duplicate Y/N	<p>If you require an additional copy of the test Press "Y".</p> <p>If one copy is sufficient then press "N"</p>	Press "Y" or "N"	<p>If "Y" the display will show "Customer Copy", the unit will begin to print and LCD will then show Normalising as it calculates data for graph presentation. As it prints the graph the LCD will show Graph The LCD will then show Repeat Y/N</p>
12	Repeat? Y/N	Repeat the test by pressing "Y", stop testing and return to Ready mode by pressing "N"	Press "Y" or "N"	<b>Svrc/Emrg? S/E</b> if "Y" is pressed, <b>Ready&gt;</b> if "N" is pressed
<p>Note: For Maxi 11.0 Version onwards, if the Maxi runs out of battery before able to print the test, the customer can go back and retrieve their most recent test by pressing "L" to recall the data "R" from the ready position.</p>				

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## 5. CHECKING SENSORS AND OTHER FUNCTIONS

With the Brake Meter in Ready mode, the battery voltage, deceleration, pedal force, date and time can be checked.

**Note:** None of these readings can be adjusted by the operator.

To:	Press	Screen Display
Check battery life	"B"	Bat. life: xxx %
Check calibration (Toggle between accelerometer & pedal sensor reading)	"C"	Cal: x.xx g Acceleration reading This should read close to 0.000 +/- 0.05 on a surface measured as being horizontal and +/- 1.000 +/- 0.05 when vertical. Cal: xxx.x N Pedal Sensor reading - this should be within 20N of zero when no load is applied.
Check the date	"D"	Date: dd mmm yy
Check the time	"T"	Time: hh:mm:ss Note: The internal clock can be changed from Local Standard Time to Day Light Savings. After seeing "T" you may toggle between Standard and Day Light time by pressing "D". Daylight Savings time is indicated with "*".
Check printer feed	"P"	Paper advances until any key is pressed Or if "No" key is pressed, it stops after 3 seconds.
Contrast on LCD Display	"O"	BL= on or BL = Off Contrast X. Backlight features are not standard (special order). The Contrast may be changed by pressing "U" to go up or "D" to go down. Pressing "E" will exit this function.
Test Printer	"N"	Printing... The built-in printer will printout a demo page. This function could be used to diagnose the printer.

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## 6. CALIBRATION PROCEDURE

The Brake Meter must be re-calibrated every 2 years. The reason for this is to maintain creditability in tests and acceptance of data according to international standards. Each time the unit is turned on, the LCD will show the date that the re-calibration is due. The calibration due date is also shown on all printouts and upload reports. At the time the unit is due for recalibration, testing will not be possible. The LCD screen will show: "Calibration due! Contact your vendor for recalibration." Return Brake Meter to AutoTest Products (See Section 6.1).

### 6.1 Return of AutoStop Maxi for Calibration

To return for recalibration, pack your device securely and include all the details such as:

- Business name and ABN
- Shipping address
- Phone number
- Email address

#### Ship the device to:

Service Department  
Autotest Products Pty Ltd  
69 Parsons Street,  
Kensington, VIC 3031  
Phone no: (+61) 3 8840 3016

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## 7. TROUBLESHOOTING

Problem	Potential Cause & Action Necessary
Brake Meter will not turn on	Battery has discharged - charge battery for 12 to 16 hours. Battery charger has failed - check battery charger output with Multimeter, check condition of fittings. Battery or internal electronics have failed - return unit for servicing.
Brake Meter does not record keypad input.	Battery discharged - refer above
Brake Meter turns itself off during use	Battery discharged - refer above
No printout	Refer section 9
Printout illegible or hard to read	Refer section 10
"Time out " displayed on printout	Unit not secured into position properly. Foot has been lifted from pedal before vehicle has stopped.
"MEM FAILED" is displayed when Brake Meter is switched ON.	Internal flash memory is not responding or it is faulty. Switch off the unit and return it for servicing.
"Format Mem? Y/N" is displayed when Brake Meter is switched ON.	Internal flash memory is corrupt or unreadable. Press 'N' key to skip formatting. Switch off the unit and return it for servicing. Note: if 'Y' key is pressed, all existing data might get erased.
"Reset All? Y/N" displayed when unit is switched ON.	Clock memory is corrupt. Clock battery is probably flat. Do NOT press 'Y'. Press 'N' and switch off the unit and return the unit for servicing.
"Accelerometer Fail!" displayed when unit is switched ON	Accelerometer chip is faulty. Return the unit for servicing.

For other problems, contact AutoTest Products on (61 3) 88 403 000. Repairs should only be done by an Authorised AutoTest Service Centre in order to ensure the Brake Tester retains its calibration. Refer to Section 11 regarding warranty. For instructions on returning products for calibration or servicing, see Section 6.1.



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## 8. SPECIFICATIONS

### AutoStop Maxi Brake Tester

Battery	12 V. 1.9 AH fully sealed lead acid rechargeable
Charger Output	14 V DC, Centre positive, 500 mA
Pedal Sensor	Rated to less than +/- 1N over 0 to 1000N
Accelerometer	Rated to less than + /- 2% over -2.5 to 2.5g

### Paper

Wood-free paper

Max roll diameter	50mm
Width	44.5mm (+/-0.5mm)
Thickness	0.06mm (+/-0.001mm)
Basic Weight	52.3gms (14lb/500 sheet 17"x22")

### Ribbon

Epson type ERC-05

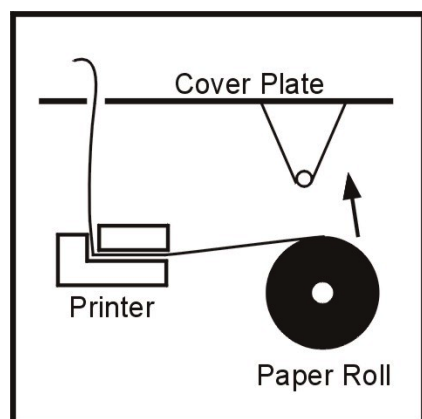
Ribbon Life	Equivalent to 2 paper rolls
Print Speed	1.0 line/sec
Colour	Purple or Black
Dimensions	approx. 74mm (w) x 25mm (d) x 7mm (h)

**Note:** The use of proper paper is very important to the operation of the printer. Use of non-standard paper will jam the printer or wear the print head and will void the warranty. Paper and ribbons are available from AutoTest Products as a kit, containing 2 rolls of paper and one ribbon. The replacement of any other components must be carried out by AutoTest Products.

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## 9. CHANGING PAPER

1. Switch the Brake Meter "On" and enter Examiner I.D. to get to the "Ready" mode.
2. Remove the printer cover plate on the top of the keypad by inserting a screwdriver in the buttons and twisting through 90 degrees.
3. Lift out printer cover plate, empty paper roll.

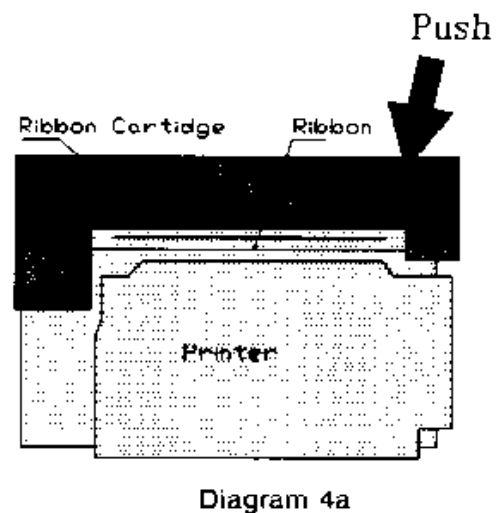
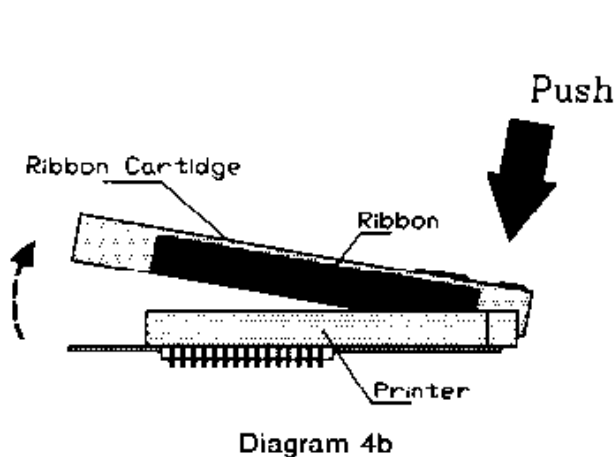


4. Tear off any remaining paper. With the Brake Meter turned on and at the "Ready" mode, press the "P" key on the keyboard to feed any remaining paper through the printer.
5. Press any key to halt paper feed.
6. Remove the old paper core and spindle by gently springing apart the sides of the paper holder. Discard the paper core.
7. Prepare a clean starting edge on the new roll by cutting off the top of the paper.
8. Mount the paper roll on the spindle and load into the paper holder in the orientation shown on the printer cover.

9. Feed the edge of the paper into the printer, press the "P" key on the keypad (at the Ready mode) to feed paper through the printer. Feed 50 to 75mm through the printer.
10. Press any key to halt paper feed.
11. Wind up any slack in the paper roll, replace the printer cover plate fitted with the new paper roll and press the hold-down buttons home. Note: The buttons must be correctly aligned before they will click home.
12. Press "Off" when complete.
13. It is important that the paper is of an approved type. Use of an unapproved paper will damage the printer mechanism and void warranty.

## 10. CHANGING PRINTER RIBBON

1. It is recommended that a new printer ribbon be fitted for every two paper rolls consumed.
2. Remove the printer cover plate by following steps 1-3 for changing the paper roll.
3. Gently push down on the right-hand side of the printer ribbon (the word PUSH is embossed on the ribbon cartridge). The left side will flip up and the ribbon may be removed from the printer.
4. Replace the ribbon in the same orientation; with the ribbon facing towards the keypad and the word "PUSH" and "EJECT" on the right-hand side. Locate the left-hand side of the ribbon cartridge in position first, with the ribbon fitting between the metal plate and paper feed guide.
5. Wind up any slack in the paper roll, replace the printer cover plate fitted with the new paper roll and press the hold-down buttons home. Note: The buttons must be correctly aligned before they will click home.
6. Press "Off" when complete.



## 11. WARRANTY

When you purchase an AutoTest Product you are required to complete warranty registration form, and return to AutoTest Products Pty Ltd within 10 days of purchase of the product. AutoTest Products or any Authorised AutoTest Service Centre warrants this product against defects in material and workmanship for a period of 12 months from the original date of purchase. This warranty applies only to products and components supplied by AutoTest Products which can be identified by the trade name or logo affixed to them or by other documents. AutoTest Products does not warrant any products not supplied by AutoTest Products.

Note: The use of proper paper is very important to the operation of the printer. Use of non-standard paper will jam the printer and/ or wear the print head. Use of non- standard paper will void the warranty. Paper and printer ribbon cartridge are available from Autotest Products.

During the warranty period, AutoTest Products or any Authorised Service Centre will repair (or at its option replace), any defective component(s) without charge for parts or labour, provided the product is freight prepaid, to an authorised AutoTest Service Centre. Transit insurance and return freight will be at the owner's expense.

AutoTest Products or any Authorised AutoTest Service Centre reserves the right to refuse warranty repair if accident, abuse, misuse or misapplication has damaged the product. In transit or as a result of service or modifications by other than an Authorised Service Centre, nor are any other warranties expressed or implied, including any regarding merchantability or fitness for any other particular purpose.

AutoTest Products or an Authorised Service Centre is not responsible for incidental or consequential damages resulting from the breach of any express or implied warranty, including damage to property and, to the extent permitted by law, damages for personal injury.

(Express exclusions from warranty) Unless otherwise specified, this warranty does not cover:

1. Modified, abused, neglected, accidentally damaged or excessively worn products, or products that have become damaged or defective as a result of improper use.
2. Repairs attempted or made by other than our regional repair centre or authorised warranty service centre.
3. Conditions or malfunctions caused by the reasonable effects of fair wear and tear or the malfunction of normally wearing parts, which include but are not limited to: Batteries, plugs and leads.

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4. Consumable items, such as batteries (beyond 3 months from date of purchase).
  5. AutoTest products that are not distributed through AutoTest's authorised distributors and resellers.

**(Warranty non-transferrable)** This warranty is not transferrable beyond the original purchaser.

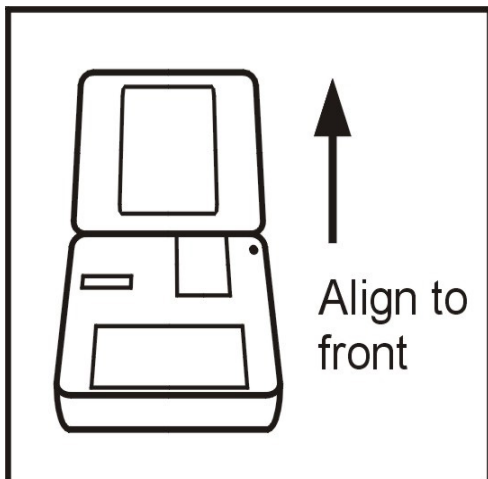
Warranty is subject to AutoTest Products Standard Terms & Conditions published widely. For more detailed warranty clause, please visit our website [www.autotest.net.au/terms-and-conditions/](http://www.autotest.net.au/terms-and-conditions/).

## 12. QUICK GUIDE

### After Unpacking

Charge the battery for 10 hours before initial use. The battery charger input is located to the right of the printer. With proper care and use, the battery should last between two and five years. It is recommended to recharge the battery nightly if the AutoStop Brake Tester is used regularly. Only an approved battery charger with the correct voltage, waveform and terminal polarity should be used. The battery must never be allowed to fully discharge as it will void the warranty.

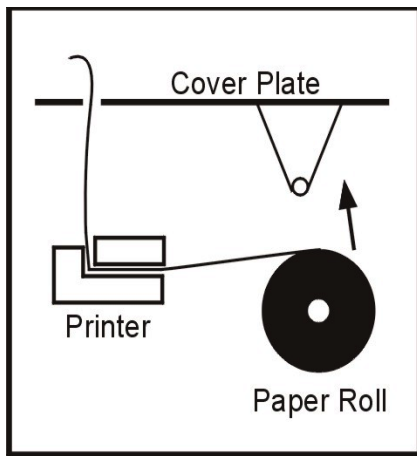
### Set-Up & Testing



1. Secure AutoStop Maxi in vehicle and attach pedal sensor to brake pedal. This will vary from vehicle to vehicle; a mounting bracket or straps may be used.
2. Press "ON".
3. Enter Examiner ID and press "Yes".
4. Remove pressure from pedal sensor. Processor measures zero level of the pedal sensor.
5. Press "Yes" again.
6. Mistakes may be corrected by using the "<" or backspace key.
7. At the "Ready>" prompt, press "R" to initiate test. Enter the vehicle registration number (or VIN number) and press "Yes".
8. Srv/Emrg? S/E. Select Service (S) or Emergency (E) test.
9. Ensure it is safe to run the test.
10. Before starting or repeating the test, remove foot from pedal sensor and brake pedal.
11. Accelerate to speed and stop when safe.
12. Press "Y" to save or "N" to not save the results (if Brake Tester has data logging option).
13. Press "Y" to print or "N" to skip printing a duplicate.
14. Press "Y" to repeat test, "N" to end test.
15. Press "OFF".

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## Change Paper



1. Remove printer cover from panel.
2. Remove paper roll spindle from cradle.
3. Load new roll (see 'Paper Specifications' regarding special paper).
4. Press "ON".
5. Enter Examiner ID and press "Yes".
6. Press "P" to feed paper through printer.
7. Press any key to halt paper feed
8. Replace paper roll assembly and printer cover.
9. Press "OFF".

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## NOTES:

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