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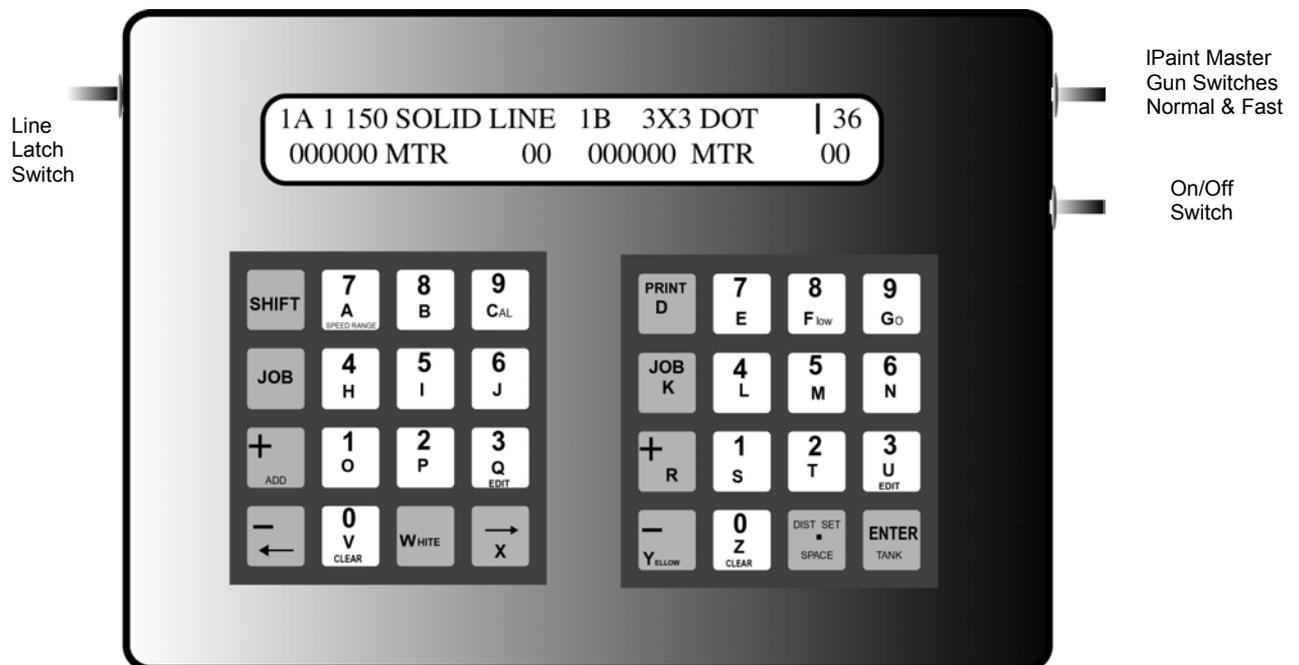
1.0 INTRODUCTION

Use AUTOLOG & OUTPUT BOX to control, measure and monitor all types of paint and thermoplastic roadmarking operations.

AUTOLOG is an electronic controller for roadmarking paint guns on medium to large trucks. It is supplied pre-programmed to your own specifications.

OUTPUT BOX is used with AUTOLOG to provide total flexibility of gun outputs.

Autolog



1.1 AUTOLOG Features

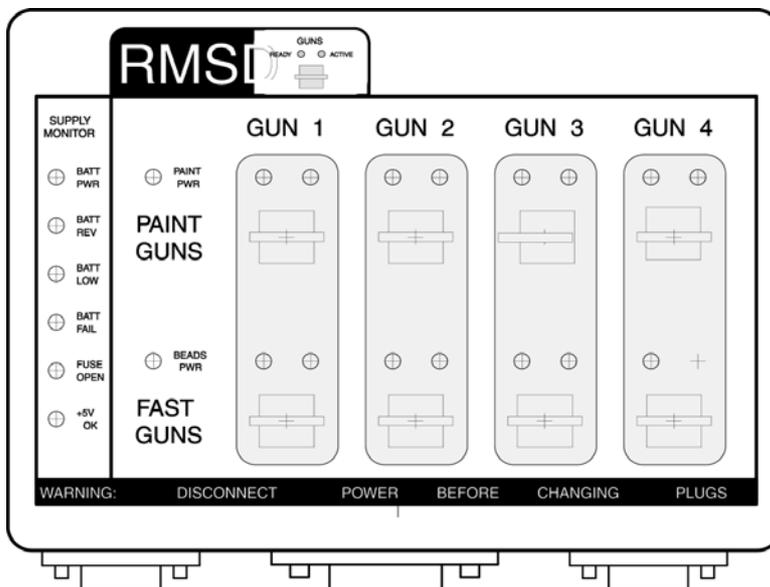
- Simultaneously paint two independent patterns plus mark polydots and RPMs
- Fast and Normal Speed painting option
- Calibrate each gun individually for line length adjustment
- Customise line gap and length by text entry
- 162 user-programmable patterns available
- Diagnostic LED's provide on the job trouble shooting information
- Easy operation and installation plus laptop computer interface
- Alpha numeric keyboard for easy set up and one touch operation
- View activities on the easy to read two line, 40 character back lit LCD
- Remote LCD readouts can be mounted on the front or rear of your equipment to display paint thickness, vehicle speed and paint temperature
- Master power, master gun & bead switches for fast shut off
- **Line Latch** - one touch of the trigger and the line is automatically painted to the full length
- Send patterns separately or simultaneously to any gun via the OUTPUT BOX

- A separate trigger can be used to produce thermoplastic patterns for profile or rain gaps
- **Gap Switch** on trigger can be used to avoid painting over RPM's
- Speedo input from gearbox or 5th wheel encoder - easily calibrated to any vehicle
- QA function: AUTOLOG keeps accurate records of work done. Totalisers show metres painted and litres used for each pattern (for 2 colours). Litres used measured to 1/1000th of a litre and metres painted measured to 0.1% accuracy Download summarised data to JOBCARD VIEWER for accurate records of work completed
- Internal battery stores data when power is off
- Use with OUTPUT BOX to control up to 8 guns (including bead guns)
- For more guns use two OUTPUT BOXES in tandem

1.2 AUTOLOG Specifications

- Size 168mm x 220mm x 40mm
- Electrical requirements 12 - 28 volts, unit is fully protected against shorts, voltage spikes and reversals
- Operating temperature 0 - 45°C (higher temperature option available)
- Operating speed range 0 - 100km/h
- Requires RMSD ENCODER for optimum performance

Output Box



1.3 OUTPUT BOX Specifications

- Size 200mm x 160mm x 80mm
- Electrical requirements 12 - 28 volts, unit is fully protected against shorts, voltage spikes and reversals
- Operating temperature 0 - 45°C
- Operating speed range 0 - 100km/h
- Plug in connections for easy wiring

2.0 INSTALLATION

Before you start, check that your package includes the following:

Autolog Controller
Output Box
2 Triggers
Mounting Bracket
Cables
Wiring Diagrams

Optional Extras

Smartswitch
LCD Readouts for Speed and Thickness
Additional Readouts for Paint or Thermoplastic Temperature
RMSD Speed Encoder
Pump Encoder



Note: All RMSD products should be installed by an RMSD trained technician or a qualified auto electrician. Product installed incorrectly will not be covered by warranty.

2.1 System Layout

Refer to Appendix 13.1 for the System Layout and Wiring Guidelines.

2.2 Mount AUTOLOG Controller

Mount the AUTOLOG controller using the bracket supplied. We recommend that the controller be mounted in the centre of the driver's cab just below the top of the dashboard. This keeps it out of the sun, clear of the gear lever and passenger legs and within reach of either side.

2.3 Mount OUTPUT BOX

The OUTPUT BOX is mounted vertically, at the rear of the vehicle in a protected position (eg steel enclosure). To minimise wiring mount the OUTPUT BOX close to the guns.

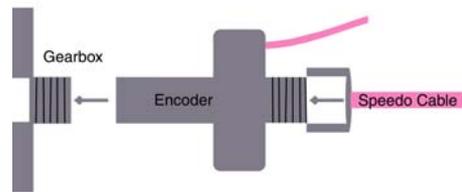
Note: Each gun has an individual plug and wiring. Do not wire paint and bead gun circuits in parallel. Refer System Layout and Output Box Wiring Guidelines in Appendix 13.1.

2.4 Mount Speed Encoders

Speed encoders may be either gearbox or 5th wheel.

2.4.1 Gearbox Encoder

If using a Gearbox Encoder screw this onto the gearbox speedometer takeoff in place of the speedometer cable. The speedometer cable is then replaced onto the thread provided on the encoder. See the diagram that follows.



! Take care not to place any force onto the encoder shaft.
The drive pins must engage the gearbox drive slot.

2.4.2 5th Wheel Encoder

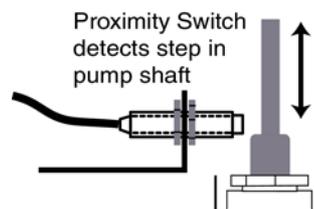
If using a 5th wheel encoder mount it on the inside wall of a rear tyre. Refer to the diagram in Appendix 13.1.4

! Care must be taken to ensure the encoder wheel is not running on the edge of the tyre where it could cause to damage the tyre wall.

2.5 Pump Encoders

2.5.1 Positive Displacement Pumps

Positive displacement pumps require an Omron proximity switch. Part No: E2E -X5MEI (2m). This must be fastened onto the side of the pump using a bracket and bolts (not supplied).



2.5.2 Air Atomised Systems

Air atomised systems require a positive displacement flow sensor eg TRIMEC MP 25.

2.6 Power Connection

Must be direct from the battery. **!** Important - To ensure proper operation have a solid earth to both the chassis and the battery. (Wires not supplied)

2.7 Plug in Connections

Refer to the System Layout (Appendix 13.1.1) for plug in loom connections.

Connections must be made from the Autolog, to the Output Box, the door trigger and readouts. From the Output Box to the battery, the paint guns, the bead guns, the paint pump, the speed encoder and optional triggers and readouts. From the door trigger to the readout. Looms are supplied except for the gun and battery connections.

Note: For the gun connections – each gun must be individually wired to the relevant plug on the Output Box and to the air solenoids. Ensure the solenoid remains waterproof. Refer to the Output Box Wiring Diagram in Appendix 13.1.

3.0 SAFETY PRECAUTIONS

PAINT AND GUNS – Roadmarking guns operate at high pressure and roadmarking paint is highly toxic. Operators using RMSD equipment must ensure no people are within the gun firing range while setting up and using the equipment.

SWITCHES – The Master Gun switches must be turned off between jobs.

STATIC STRAPS – Good quality static straps should be fitted to all vehicles using RMSD equipment (including support vehicles). This will extend the life of your equipment and reduce the possibility of operating staff receiving electrostatic shocks while working. Severe static on your vehicle will affect the operation of RMSD equipment.

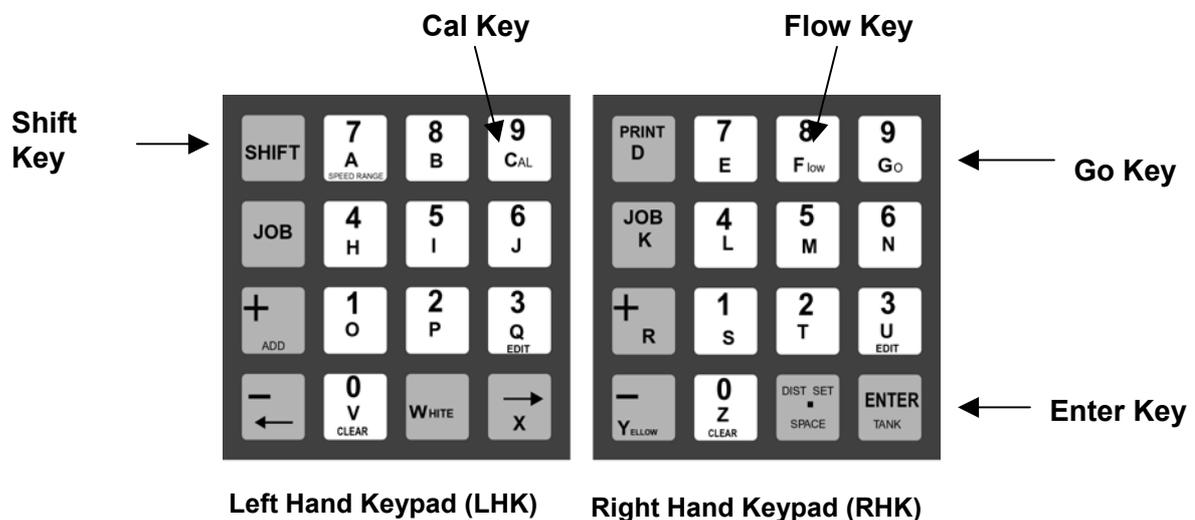
HIGH VOLTAGE POWER AND HIGH FREQUENCY EMISSIONS - All electronic equipment can be damaged by high voltage power and high frequency emissions eg near airports, and large industrial plants such as smelters. If you are working in such an area we recommend you turn off all electronic equipment.

4.0 SET UP

Before operating AUTOLOG & OUTPUT BOX for the first time in a new vehicle you need to calibrate the system to your vehicle roadmarking requirements. Follow the instructions below to complete the calibration set up.

Use the keypads to access the SET UP PROGRAM.

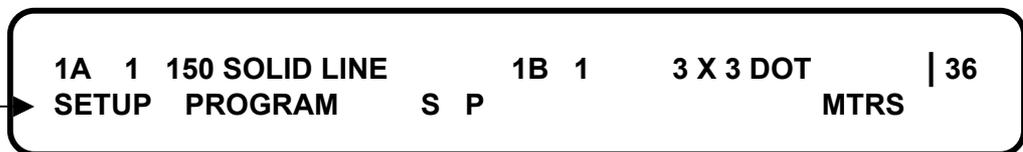
4.1 Keypad Layout Diagram



4.2 To Access Set Up Program

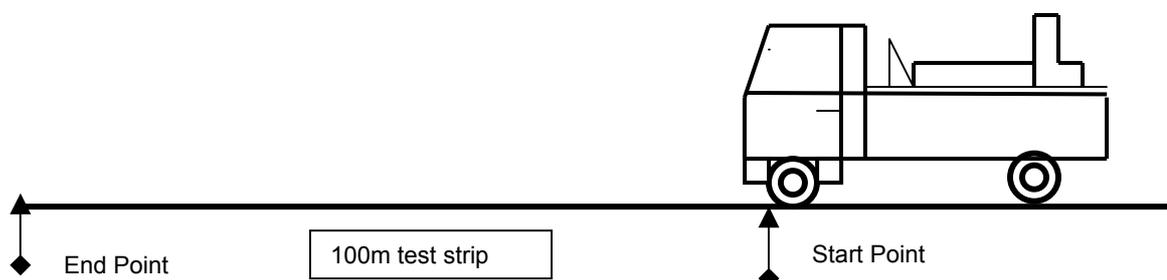
Hold down **SHIFT** and press and release **ENTER**. SETUP PROGRAM will be displayed on the bottom left of the screen. When you use AUTOLOG for the first time the screen will display the details pre-set for Job 1A and Job 1B. At all other times it will display the last job open.

This indicates the Set Up Program is active



4.3 Speedometer Calibration

Step 1 Measure an accurate 100m test strip and position the vehicle at the start line



Step 2 Enter the SETUP PROGRAM - hold down **SHIFT** and press and release **ENTER**

Step 3 When the screen shows SETUP PROGRAM hold down **SHIFT** and press and release **CAL (9 LHK)**. The screen will read as follows:

DRIVE FOR 100 METRES THEN STOP **ENTER TO QUIT PULSE/METRE = 100.00**

Step 4 Drive the 100 m test strip. While the vehicle is moving the screen will read as follows:

DRIVE FOR 100 METRES THEN STOP **ENTER TO QUIT "COUNTING"**

Step 5 Stop the vehicle at the end of the 100 metre test strip. After 5 seconds the screen will automatically display the speedometer calibration. See the example below:

PULSE/METER = 97

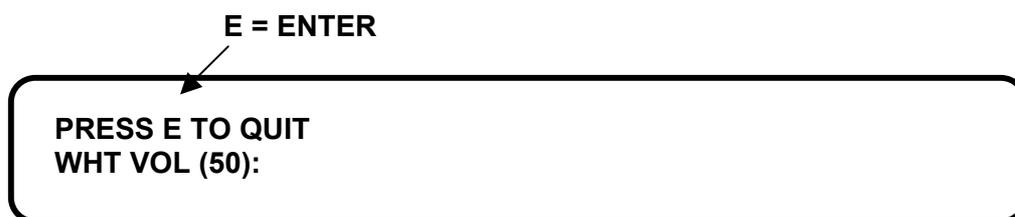
Step 6 After 10 seconds the screen display will return to the last job open.

4.4 Pump Volume and Paint Solids Volume Calibration

It is essential that each litre pumped registers on the counter as a litre. Before starting this calibration check the litre measurement with a known container.

Step 1 Enter the SETUP PROGRAM - hold down **SHIFT** and press and release **ENTER**.

Step 2 Hold down **SHIFT** and press and release **FLOW (8)** on the RHK. The screen will read as shown below:



Step 3 Use the LHK number keys to enter the correct volume for the white pump (1/100ths of a litre per one stroke of the pump).

Note: The pump volume is listed by the pump manufacturer. You can also calculate the volume by measuring a trial quantity through the pump. If using a positive displacement flow sensor refer to the RMSD technician for advice in setting this value.

Press **ENTER** to continue.

Step 4 The screen will now show the yellow pump. Use the LHK number keys to enter the correct volume for the yellow pump and press **ENTER**. **If you are not using yellow paint ignore this prompt and press ENTER to continue.**

The screen will now show the paint solids volume:



Step 5 Use the LHK number keys to enter the paint solids volume for the white paint and press **ENTER**

Step 6 Use the LHK number keys to enter the paint solids volume for the yellow paint and press **ENTER** **If you are not using yellow paint ignore this prompt and press ENTER to continue.**

Note: For wet film thickness enter the solid volume as 100%. For dry film thickness enter the solid volume as per the paint manufacturer's batch information.

Step 7 Pump paint through the system to ensure that each litre registers precisely on the counter. To ensure accuracy measure more than a single litre eg 10 litres

4.5 Fast Speed Gun (Optional)

The fast speed gun control is used to keep paint thickness consistent when operating above and below a preselected vehicle speed cutoff. To ensure accuracy you need to set the minimum and maximum vehicle speed.

Note: The Lo and Hi speed settings should be set to the same value.
LO = the speed at which all the fast guns will cut off.
HI = the speed at which the fast guns turn on.

Step 1 Hold down **SHIFT** and press and release **ENTER** to enter the SETUP PROGRAM

Step 2 Hold down **SHIFT** and press and release **A (Speed Range)** on the LHK. The screen will read as shown below:



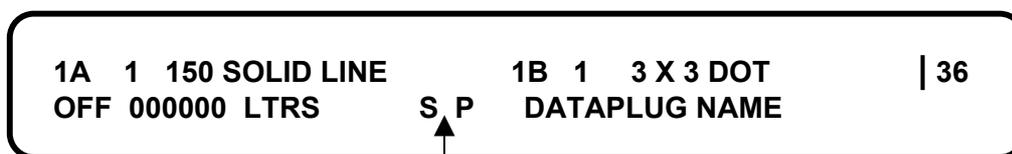
Step 3 Use the **+** and **-** keys on the LHK to change the LO speed setting and use the **+** and **-** keys on the RHK to change the HI speed setting.

Step 4 Press **ENTER** when you are finished and AUTOLOG will return to normal operation.

4.6 Pump & Speed Encoder Indicators

These indicate correct pump and speed encoder operation.

Step 1 Press **Clear (0)** on the LHK. The screen will show two indicators (**S** and **P**) in the middle of the bottom line.



Pump & Speed Encoder Indicators

Step 2 Speed Encoder Indicator

Move the vehicle as slowly as possible. If the **S** indicator is alternating (**+** to **S**) the gearbox encoder is operating correctly.

Step 3 Pump Encoder Indicator

If the **P** indicator is alternating (**+** to **P**) the paint pump is operating correctly.

4.7 Thickness Gauge (Optional)

Paint line width is determined by gun height. For the thickness gauge to provide an accurate reading, gun height must be correct and the line width must be entered in AUTOLOG. The line widths have been preset for each pattern. If you need to change the preset descriptions refer to Line Width in Appendix 13.5.

Solid content must be set according to the manufacturer's batch information. See Set Up Instructions Section 4.4. **Note:** For wet film thickness enter the Solid Volume as 100%.

If testing the thickness gauge using the simulator you must be actively painting. (ie paint must be going through the system). Do not move the vehicle during testing.

5.0 OUTPUT BOX

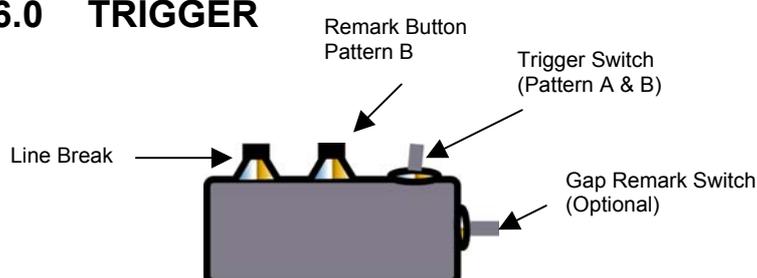
The OUTPUT BOX drives the gun solenoids. Using OUTPUT BOX the AUTOLOG can direct the patterns to any combination of guns.

Default Gun selections via OUTPUT BOX have been preset into your AUTOLOG. The default gun selections are set out in Appendix 13.2

The gun selection is entered behind the bar character on the AUTOLOG screen (|). For example for Solid (Pattern A) to Gun 2 and Dots (Pattern B) to Gun 3 the entry is | 36

If you need to change the preset OUTPUT BOX settings please refer to the editing instructions in Appendix 13.5.

6.0 TRIGGER



The roadmarking patterns are selected in AUTOLOG and then painting is activated by the trigger. Use the left hand trigger for the left hand guns and the right hand trigger for the right hand guns.

Trigger Switch Use this to paint Pattern A or Pattern B. Set the trigger switch forward for Pattern A, back for Pattern B and centre for off.

Remark Button Use this to paint intermittent Pattern B dots. This is helpful when remarking old work. **Note:** Line Latch (switch on left hand side of AUTOLOG) allows one touch operation of the Remark Button. Without Line Latch you need to keep your finger on the button while the dot is painting.

Line Break Hold down this button to stop painting briefly without clearing the pattern settings. For example to stop painting over an RPM.

Gap Remark Switch (Optional) Provides a 1 metre gap automatically when remarking. To use, turn the Gap Remark Switch on. Select Pattern A (Solid Line). Press and hold down the Remark Button. When the system starts painting again release the Remark Button.

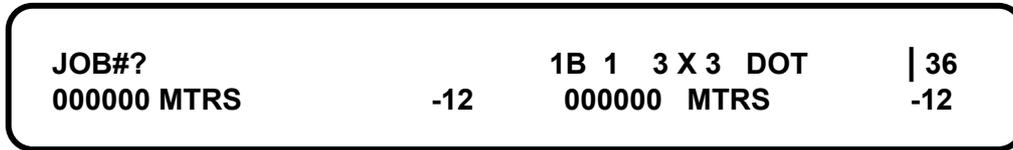
7.0 JOB NUMBERS

AUTOLOG records are kept by Job Number. Each Job Number contains a group of preset roadmarking patterns. Each pattern has an A and B setting. Usually Pattern A is a solid line and Pattern B dots. Both settings (A and B) are visible on the screen at the same time.

9 Job Numbers have been preset with the roadmarking patterns listed in Appendix 13.2. To change the roadmarking pattern descriptions to meet your individual requirements follow the editing instructions in Appendix 13.5.

7.1 To Access Job Numbers

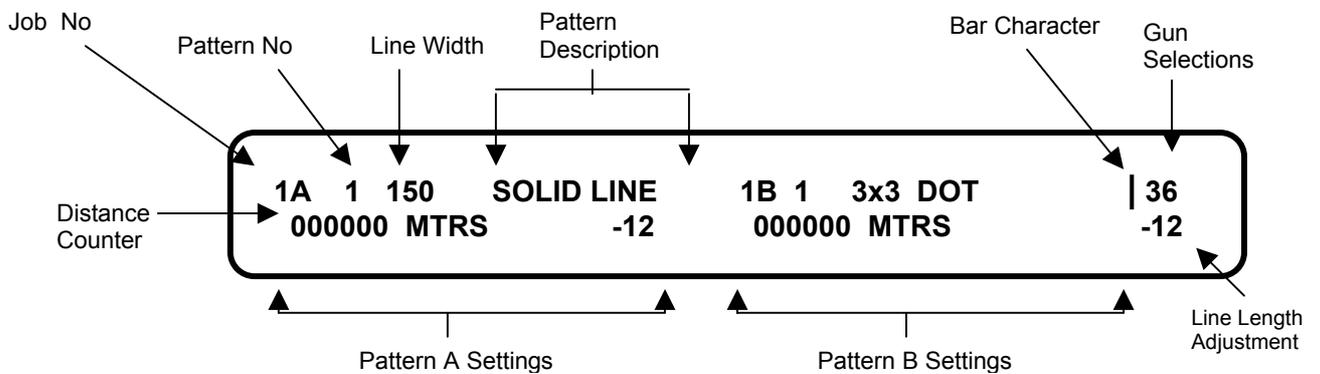
Press **JOB** on the LHK. The screen will beep and prompt you to enter the Job Number. The screen will look similar to the one below:-



Enter the job number by pressing the number key on the LHK.

Enter the pattern number by pressing the number key on the LHK.

The screen will look similar to the one below.



7.2 Incidental Markings

Incidental roadmarkings such as pedestrian crossings, stop signs, direction arrows, fire hydrants etc can be recorded in AUTOLOG.

To set AUTOLOG to record incidental markings please refer to the editing instructions in Appendix 13.5.

Incidental markings are recorded as specific patterns in the selected Job number and accessed by pressing the appropriate job and pattern number. The example below is for **pedestrian crossings**:

Select the job number and pattern number you have set for pedestrian crossings. The screen will read similar to the one below.

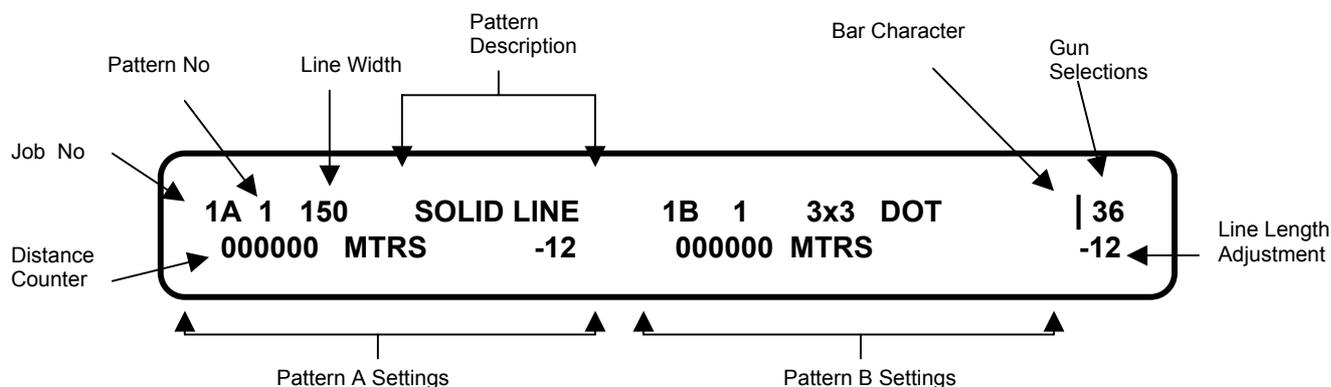


Paint the pedestrian crossing.

Hold down **SHIFT** and press the **+** key on the LHK to add the new pedestrian crossing to the total number of pedestrian crossings painted.

9.0 PAINTING WITH AUTOLOG & OUTPUT BOX

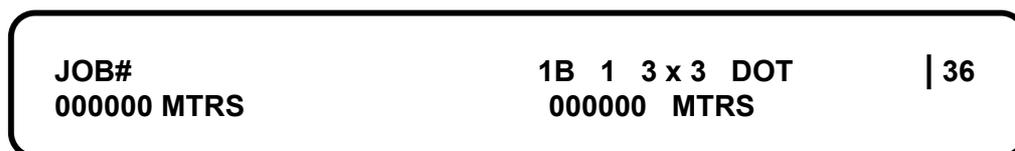
AUTOLOG Screen Layout



Step 1 Turn On The Master Gun Switches. These are located on the right hand edge of the AUTOLOG

Step 2 Enter The Job Number and The Pattern Number

Press **JOB** on the LHK. The screen will beep and prompt you to enter the Job Number. The screen will look similar to the one below:-



Use the LHK to enter the job number. Then use the LHK to enter the pattern number

Step 3 Clear The Counters (If Necessary)

Hold down **SHIFT** and press **CLEAR (0)** on the LHK. This will clear both the distance and the litre counter for the pattern selected.

YOU ARE NOW READY TO PAINT

Step 4 Painting

Use the trigger to paint the pattern selected.

Step 5 Stop Painting

At the end of the pattern press **CLEAR (0)** on the LHK. This will disarm the Gun and prevent any further painting or counting.

Step 6 Turn Off The Master Gun Switches

! **TURN OFF THE MASTER GUN SWITCHES BETWEEN ALL JOBS**

10.0 SAVE JOB RECORDS

! AUTOLOG stores data for a maximum of 9 jobs. When you have used all 9 jobs the data must be recorded manually or saved to JOBCARD VIEWER. The system should then be cleared ready for new data.

Note: Data can be recorded/saved if you have done less than 9 jobs. As a minimum, data should be recorded/saved daily.

! It is important to clear all data from AUTOLOG after you have recorded/saved the information.

10.1 Saving To Jobcard Viewer

The Dataplug is used to transfer the information from AUTOLOG to JOBCARD VIEWER in your office computer. Using the Dataplug means you do not need to manually record information from AUTOLOG. The data is automatically downloaded to the Dataplug file you select.

Note: The data from all 9 jobs is downloaded to the Dataplug file you select. It is important to clear all AUTOLOG counters after downloading. Up to 7 sets of 9 jobs can be downloaded to selected files in a single Dataplug. (Refer to JOBCARD VIEWER instructions for Dataplug file set up)

10.1.1 Downloading to the Dataplug

Step 1 Ensure the vehicle is stopped, painting operation is finished and the Master Gun Switches are off. Plug the Dataplug into the designated outlet.

Step 2 Hold down **SHIFT** and press **GO (9)** on the RHK.. The screen will read as below.
Note: The screen will prompt you to plug in your Dataplug if you have not already done so.

SAVE: "FILE NAME"	PLUG: "PLUG NAME"
+ - TO SELECT FILE	ENTER TO CONTINUE

Step 3 Use the + - keys to scroll through the file names and select the file you wish to save the data to. Press **ENTER** to continue. The screen will read as below:

SAVE: "FILE NAME"	PLUG: "PLUG NAME"
HOLD SHIFT AND PRESS Y OR N, THEN ENTER	

Step 4 Hold down **SHIFT** and press **Y**. Then press **ENTER** to download the information. (**Note:** If you press **N** the system will not download and AUTOLOG will return to normal operation.) When downloading the screen will read as shown below:

**WAIT.....
JOB CARD SAVING**

The screen will tell you when the download is complete. See below:

DOWNLOAD COMPLETE

Step 5 Clear all Counters. The screen will prompt you as shown below:

**CLEAR ALL COUNTERS Y/N
HOLD SHIFT AND PRESS Y OR N, THEN ENTER**

Hold down **SHIFT** and press **Y**. Then press **ENTER** to clear the counters.

! **Note: If you press N the counters will not be cleared. This option is not recommended. IF YOU DO NOT CLEAR THE COUNTERS NEW DATA WILL BE ADDED ON TOP OF EXISTING DATA AND YOUR RECORDS WILL BE INCORRECT.**

After 5 seconds AUTOLOG will return to normal operation.

Step 6 Remove the Dataplug

Step 7 Follow your JOBCARD VIEWER instructions to transfer the information from the Dataplug into your office computer.

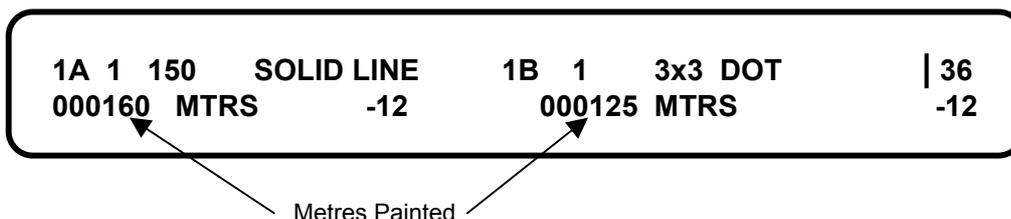
10.2 Manual Recording

Step 1 Turn off the Master Gun Switches

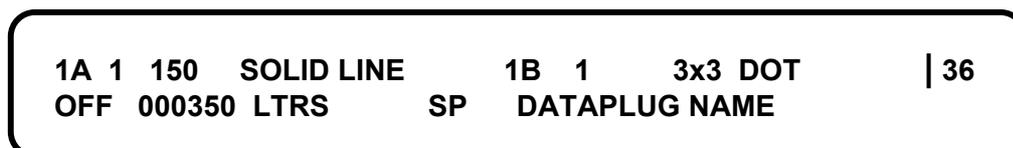
Step 2 Enter the JOB Number,

Step 3 Enter the Pattern Number

Step 4 Record the individual metres painted for Pattern A and Pattern B



Step 5 Press **CLEAR (0)** on the LHK to view the total litres used for pattern A and Pattern B combined.



Step 6 Record the total litres used.

Step 7 To clear the readings hold down **SHIFT** and press **CLEAR (0)** on the LHK.

Step 8 Press the next pattern number and repeat steps 4 – 7.

Step 9 Return to steps 2 – 8 for other job numbers.

Step 10 Clear all counters. Use this step if you have not already cleared the counters in Step 7. This clears all the individual pattern distance and litre counters for all jobs.

Note: If you do this you will lose all record of your work.
Use the LHK and press the following 3 keys simultaneously **9 + -**

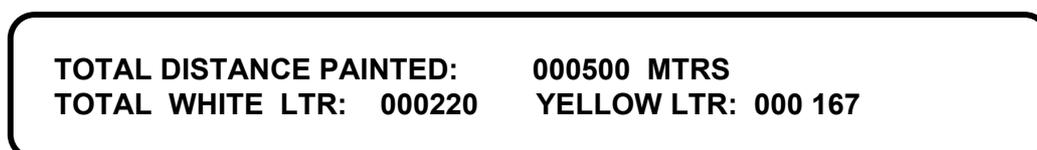
10.3 View The Total Distance and Total Litres Counters

This reading shows the cumulative total litres of paint used for all jobs recorded plus the cumulative total distance painted.

Note: The vehicle must be stopped to access this reading.

To view the totals press **ENTER**.

The screen will display the totals as shown below:



After 5 seconds AUTOLOG will return to normal operation.

10.4 To Clear the Total Distance and Total Litres Counters

This clears the cumulative total distance and the cumulative total litres counters.

Step 1 Hold down **SHIFT** and press **ENTER**.

Step 2 Hold down **SHIFT** and press **DIST SET**. The screen will read as below:

CLEAR TOTAL DIST & LITRES Y/N?
HOLD SHIFT & PRESS Y OR N, THEN ENTER

Step 3 Hold down **SHIFT** and press **Y**. Then press **ENTER** to clear the counters. This clears both the total distance and total litres counters for yellow and white paint. If you press **N** the counters will not be cleared.

AUTOLOG will return to normal operating mode after 5 seconds.

10.5 Clear All counters

This clears all the individual pattern distance and litre counters for all jobs.

! IF YOU DO THIS YOU WILL LOSE ALL RECORD OF YOUR WORK

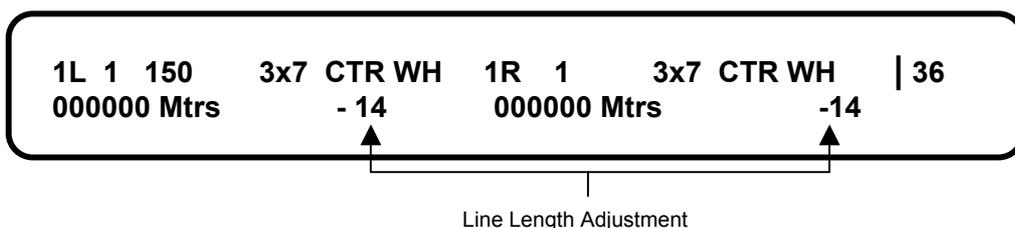
Use the LHK and press the following three keys simultaneously **9 + -**.

11.0 TIPS FOR MORE EFFICIENT PAINTING

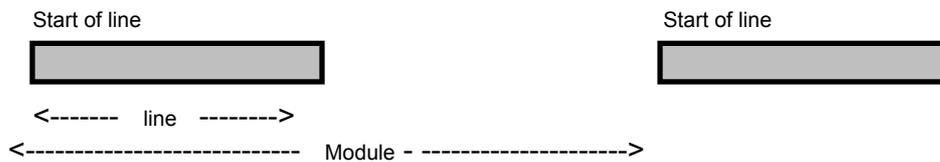
11.1 Line length Adjustment

To compensate for slow gun shut off adjust the length of the line painted (the module) by shutting off the gun a number of pulses early. This provides for precise markings.

This screen is always on view when painting. The line length adjustment numbers indicate the correction required. **-** = shortened, **+** = lengthened. Use any of the **+** **-** buttons to adjust the length of the line painted.



This value will vary in extreme temperatures and with stiff gun components, however, it has no effect on the overall module length i.e. line plus gap.



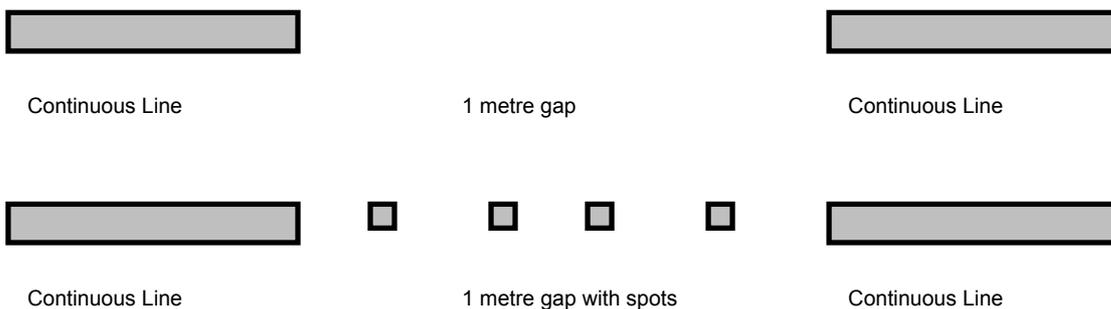
If measuring a module length, measure from the start of a line to the start of the next line (including the gap).

Note: Measuring the module from the end of the line is inaccurate as the spring return may vary.

11.2 Spotting Out

This is a function used to mark out RPM spaces and setouts with a Spot Gun.

Note: When spots are placed within a gap the total gap length is not altered ie a 1 metre gap with 4 x 50mm spots remains a 1 metre gap overall.



To use the Spotting Out function the line length adjustment must be correct and a spotting pattern selected.

Eg G7.5LSC - LS = Line Spot

To adjust the length of the Spot:

Step 1 Hold down **SHIFT** and press **ENTER** to enter the SETUP PROGRAM

Step 2 Hold down **SHIFT** and press **S (SPOT)**. The screen will show the following:

TO SET SPOT
USE “+”, “-” KEYS

ENTER TO QUIT
SPOT = 012

Step 3 Use any of the +,- Keys to adjust the line spot length. **Note:** This amended spot length will now apply to all spot patterns.

! **IMPORTANT: FOR ACCURACY A FIXED SPEED MUST BE MAINTAINED DURING SPOT MARKING**

11.4 Line Latch

This is located on the left hand side of the AUTOLOG unit and when activated allows one touch operation of the Remark (Pattern B) button on the trigger.

11.5 Gap Remark Switch

This is located on the end of the trigger and provides a 1 metre gap automatically when remarking. To use, turn the Gap Remark Switch on. Select Pattern A (Sold Line). Press and hold down the Remark Button. When the system starts painting again release the Remark Button.

12.0 SERVICE & SUPPORT

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13.0 APPENDICES

13.1 System Layout & Wiring Guidelines

13.2 Roadmarking Patterns & Default Gun Settings

13.3 Quick Reference Instructions

13.4 Troubleshooting

13.5 Editing Autolog and Output Box

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