

LP750



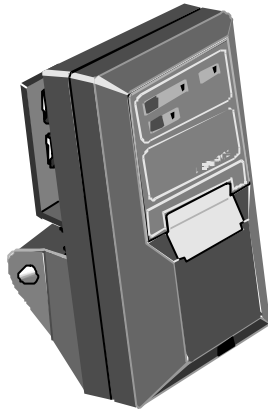
DATA PRINTER

Operating
Manual

LOADRITE

LP750

Data Printer



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LOADRITE

For: LOADRITE model LP750B

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Designed and Manufactured by:

actronic

A MEMBER OF THE LOADRITE GROUP OF COMPANIES

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General Description

The **LOADRITE LP750** printer is an accessory to the Loadrite weighing system and is used to provide a permanent record of the weighing operations as they are performed.

A detailed description of the 'print-outs' available is given in the Loadrite Operating Manual.

The **LP750** printer is supplied complete with:

- a fully adjustable mounting bracket
- a cable which may be plugged between the LP750 and the PRINTER/EDP socket at the rear of the Loadrite Weigh Indicator.
- a spare ink-ribbon cartridge

Printing is performed by the dot-matrix impact method, utilising a replaceable ink-ribbon cartridge, on to either:

- standard 57mm calculator plain paper or
- 2 layer NCR paper, (if a duplicate copy is required).

Installation

1. PRINTER

The LP750 printer should be installed at the appropriate mounting angle, orientation and location to provide optimal conditions of use by the operator.

The following important rules should be observed:

1. The printer should not be located in direct sunlight or near any engine compartments which can become excessively hot. (If necessary a screen should be provided to shade the unit from direct heat and sunlight).
2. To reduce the risk of entry of dust or moisture into the printer case -
 - The unit should be mounted with the mouth of the paper exit slot in a downwards direction.
 - Care should be taken that externally accumulated dust, water and oil etc. does not enter when the lid is opened to replace the paper roll.
3. The printer should be located in such a way that it does not hinder the normal operation of the machine controls or the visibility of the operator.
4. The printer should be located in a position where:
 - The hinged lid can be opened without restriction, for replacement of the paper roll or ribbon cartridge.
 - The operator has easy access to the printer to operate the printer controls.

2. ELECTRICAL CONNECTION

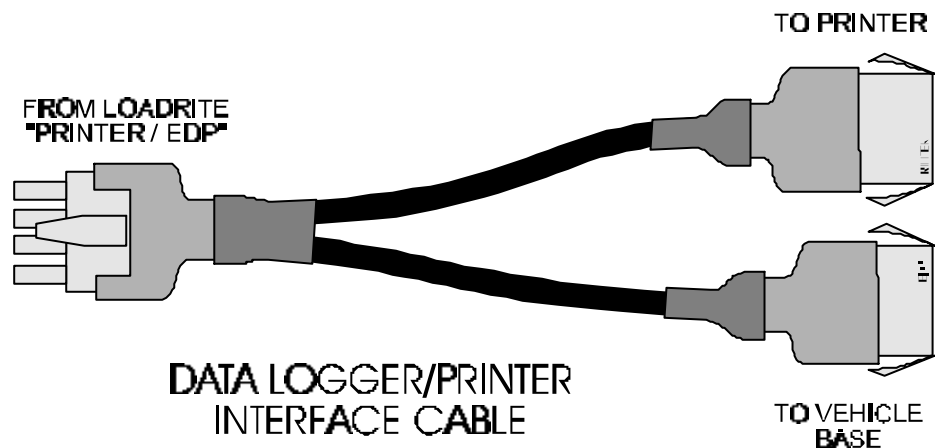
All power supply and signal connections to the printer are contained within the cable and connector assembly. No other connections are required.

Connection is made by plugging the cable between the socket located at the rear of the LP750 and the PRINTER/EDP socket located at the rear of the Loadrite Weigh Indicator. The power supply to the printer is switched ON and OFF by the main power ON/OFF switch on the side of the Loadrite indicator.

Ensure that the printer and cable are securely fastened and the cable routed to avoid accidental physical damage. Special care is needed when routing cable to avoid physical damage.

3. USE WITH DATA CAPTURE SYSTEM

The Loadrite weighing system may be operated with both an LP750 Printer and an LD640 Data Capture System, in this case an interface cable is necessary.



Please consult your local LOADRITE dealer for the supply of this interface cable.

Printer Controls And Indicators

The LP750 printer has two control buttons and three associated indicator lights on the operator control panel. Two further buttons are located inside the unit to assist with the paper loading and testing of the printer.

1. FUNCTION OF BUTTONS

PAPER FEED

This button is used to fast feed the paper out of the printer. The internal FEED performs a similar function and may be used to feed the paper through the printer mechanism during paper loading.

ON LINE

The printer can be switched 'ON LINE' and 'OFF LINE' (i.e. print data or don't print data) by successively pressing the ON LINE button. When the printer is 'ON LINE' the associated indicator light will be on.

TEST

This button is located inside the unit and is used to test the operation of the printer.

It initiates the printing of all the ASCII characters that the printer is capable of printing.

The TEST button is operative only when the printer is 'OFF LINE' and paper is correctly loaded into the mechanism.

2. FUNCTION OF INDICATORS

ON LINE

Indicates when the printer is 'ON LINE' and able to accept data for printing.

READY

Indicates that the printer is ready to accept data for printing.

This indicator goes off when:

The printer is out of paper

The printer is 'OFF LINE'

The printer is busy printing and is unable to accept any more data until finished.

PAPER

When the paper roll in the printer runs out, this indicator will flash on and off. The 'READY' and 'ON LINE' indicators will go off. When the paper roll is replaced, the 'PAPER' light will go out, but the ON LINE button must be pressed to put the printer back 'ON LINE'.

3. PAPER ROLL REPLACEMENT

IMPORTANT

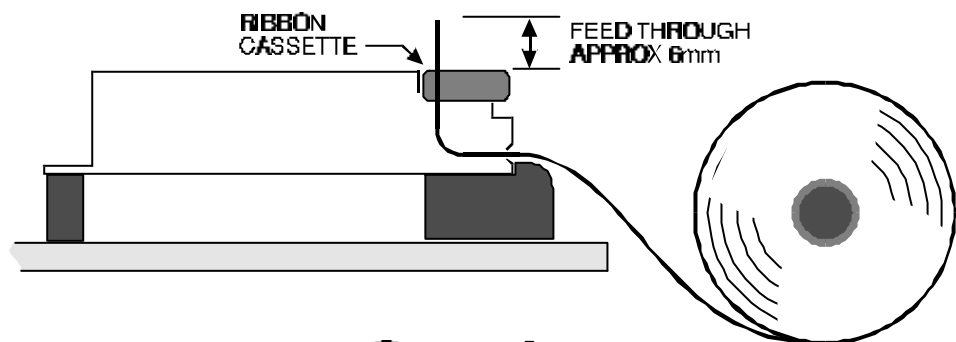
Do not pull the paper roll backwards through the printer mechanism as this will cause irreparable damage!

The **LP750** printer uses standard 57mm wide paper; either plain or 2-layer NCR - if a duplicate copy is required. The maximum roll diameter in either case is 57mm.

To replace the paper roll -

1. Open the hinged lid by springing the plastic clip and lift the lid wide open.
2. Remove the short length of paper remaining in the printing mechanism by:
 - i) Using the FEED button, or
 - ii) Using the manual paper feed wheel, or
 - iii) Gently pulling the paper through the mechanism by hand, in the NORMAL direction.
3. Remove the old roll core from the holding fingers and insert the new roll with the paper direction as shown in the diagram.

Paper Loading Path



PAPER LOADING PATH

4. Free the end of the new paper roll, checking that the end is cut reasonably square and is free from irregular or jagged tears. If needed, trim the end with scissors.
5. Take the free end of the paper and gently push it over the plastic ramp and into the mouth of the printer.
6. By using the manual feed knob (or the FEED button - If power is connected), feed the paper through the mechanism and leave approximately 6mm (1/4") of paper protruding from the mechanism. Ensure that the paper lies between the ink ribbon and the cassette housing.
7. Tighten the ink ribbon in its cassette by turning the star-shaped disc (on right-hand end of cassette) two or three turns clockwise.
8. Close the case and secure the lid catch.
9. Press the PAPER FEED button until the paper emerges past the tear-off edge.
10. Press the ON LINE button and the printer is now ready for operation.

4. RIBBON CASSETTE REPLACEMENT

Printing on plain paper in the LP750 printer is achieved by use of an inked ribbon which is contained in a replaceable cassette. The ribbon will normally last for 2 to 3 rolls of paper.

To Replace the Cassette -

1. Open the lid of the printer. If there is paper in the mechanism, remove it by cutting the paper close to the entry slot of the mechanism and gently pull or feed the paper through by use of the manual knob or FEED button.

IMPORTANT

Do not pull the paper roll backwards through the printer mechanism as this will cause irreparable damage!

2. Press down on the left-hand end of the cassette to pop the right-hand end up. The cassette can now be lifted out.

3. The new cassette is fitted in the reverse order to removal, i.e. position the right-hand end of the new cassette in the mechanism and gently push the left-hand end home.
4. Re-load the paper roll as described previously, remembering to ensure that the paper lies between the ink ribbon and the cassette housing.

SPECIFICATIONS

Case -	Injection moulded polycarbonate. Silicon rubber 'O' ring sealed. Polycarbonate front panel membrane pushbuttons.
Environmental -	Operating ambient temp. -10°C to +50°C. The unit must not be operated in direct sunlight. Relative humidity 20% to 90% Splashproof to IP52 (water from above only).
Weight -	With mounting bracket : 1.6kg
Print Method -	Dot matrix impact on plain paper. Inking by auto-feed, replaceable, ribbon cassette.
Paper -	Standard plain calculator paper, 57mm wide, up to 57mm diameter roll. Optional - 2 layer NCR paper for duplicate copy.
Print Format -	24 columns, 5 x 8 dot matrix characters, 1.7 x 2.7mm with one dot (0.37mm) descender.
Printable Characters -	Full ASCII character set, plus extended set.
Print Speed -	1.7 lines/second typical
Paper Feed -	4.0 lines/second typical
Test Print -	All printable alpha-numeric characters are continuously printed whilst TEST button pressed.
Indicator Lamps -	LED type; On Line, Out of Paper, and Ready.
Control Buttons -	On front panel - On/Off Line, Paper Feed. Internal - Test Print, Paper Feed.

Data Input -	Serial ASCII, RS232 protocol with 'printer ready' handshake. (Ready line goes 'low' when buffer full or printer printing).
Baud Rate -	1200 Baud.
Data Buffer -	1 line (24 character) Printing of line initiated when buffer full (24 char.) or LF, CR, CRLF received. CR and LF are treated as a CRLF pair.
Power Requirements -	<p>11.2 to 32V DC.</p> <p>Average Current when Printing: 0.75A @ 12V DC input 0.4 A @ 24V DC input</p> <p>Peak Current when Printing: 2.5A @ 12V DC input 1.3A @ 24V DC input</p> <p>Standby Current: 100mA max 40mA typ. @ 24V</p>
Power Input Protection -	Series diode to protect against reverse voltage. Input filter and high voltage pre-regulator into switch-mode main regulator to protect against "load-dump" and automotive transients.