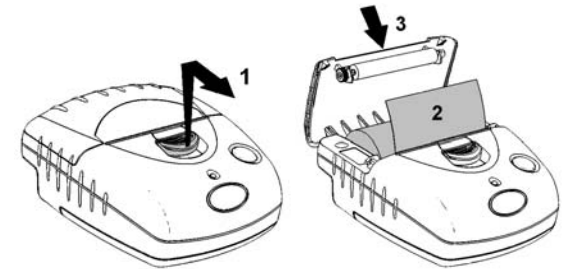


## Before Using Your Printer:

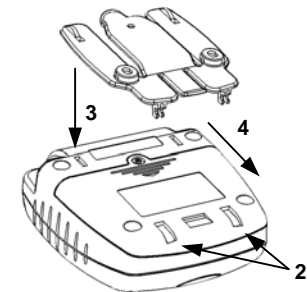
- Refer to **Figure A** to become familiar with the features of the DP-520 Wired printer.
- **Attach the Wall Mount if Desired** – (Sold Separately, Refer to Figure C):
  1. Fasten the bracket to a wall using the supplied anchors and self tapping screws.
  2. Remove the two “breakouts” using a small screwdriver.
  3. Insert the Belt Clip/Wall Mount Bracket into the four holes on the back of the printer.
  4. Slide the printer down onto the bracket until it “snaps” into place. The printer may be removed from the bracket by using the Printer Release tab.
- **Connect Power and Data Signals**
  1. Refer to the back of these instructions for information on making power and data connections.
- **Load Paper** – (Refer to Figure B)
  1. Slide the paper lid release button toward the front of the printer until the lid opens.
  2. Place the paper in the paper compartment with a small amount of paper extending from the top of the printer.
  3. Close the paper lid until it “snaps” closed.
- **Perform a Self Test** – “Double-click” the Paper Feed button.

- Notes:**
- Use Only Dascom Power Adapters.
  - Always use high quality Paper & Labels to ensure optimal performance.

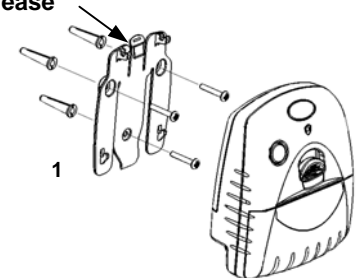
For more information, refer to the *DP-520 Wired Printer Operator’s Manual*. You may download this manual at [www.dascomamericas.com](http://www.dascomamericas.com).



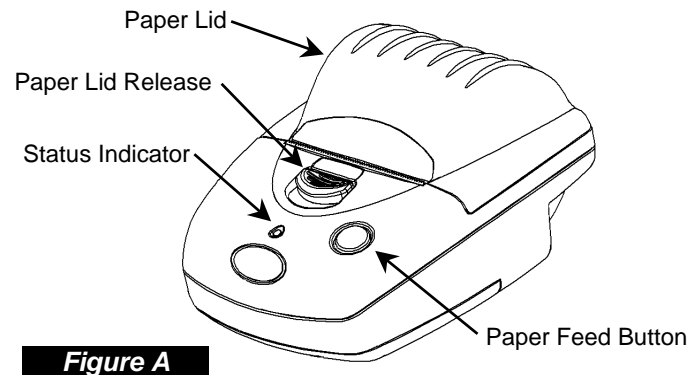
**Figure B**



**Printer Release**



**Figure C**



**Figure A**

**Dascom Americas**  
 421 West Main Street  
 Waynesboro, VA 22980

## Operating Modes

The DP-520 Wired printer has two operating modes, when not actually printing:

- "Idle Mode": ready to accept data, but no data are in the buffer awaiting printing;
- "Spooling Mode": active, but storing data for later printing.

### Idle Mode

In idle mode, the printer is ready to receive data, which will be printed as soon as complete lines or graphics patterns are decoded. It also responds to the paper feed button.

### Spooling Mode

In spooling mode, data is received and stored, but not printed. This is useful when printing needs to be suppressed during data transfer (for example in mobile radio systems); or when the printer is unable to print because the paper has run out or the lid is open.

The printer will automatically enter spooling mode when the paper is out, when the paper lid is open, if some other error condition occurs, or by command from the host. Spooling mode may be exited by clearing the error condition, "double-clicking" the paper feed button, or by host command.

## Status Indications

The Status Indicator on the front of the printer uses a number of color combinations and flashing patterns to provide status information as described below.

Pattern	Power Status	Buffer Mode
Constant Green	Running	Normal
Fast Flashing Green	Running	Spooling
Long Green - Short Red	Low Voltage	Normal
Short Green - Short Red	Low Voltage	Spooling
Fast Flashing Red	Error Condition	Spooling (Printing prohibited)
No light	Printer is Off	

## Power and Interfacing

### POWER & DATA CONNECTIONS

Power and data are connected to the printer using the cable on the rear of the printer. Refer to the table at the right for cable details.

### POWER SPECIFICATIONS

The DP-520 Wired printer is designed for direct connection to a +12 or +24 Volt vehicle battery.

On units with the shutdown feature enabled, applying a voltage of +2VDC or greater to the Shutdown input wakes the printer.

Color *	Direction)	Description
Red	To Printer	Power +9 to 36VDC
Black	—	Common
White	To Printer	Shutdown
Blue	To Printer	RS-232 Rx Data
Orange	To Host	RS-232 Tx Data
Green	To Host	RS-232 Busy

\* Cable colors are accurate when cable is marked "Alpha Wire H1 P/N 1176C". If in doubt, please contact Dascom Technical Support.

### RS-232 SERIAL INTERFACE

All DP-520 model printers have an industry standard RS-232 interface. The default parameters are 9600 baud, 8 data bits, 1 stop bit and no parity. Other baud rates may be programmed by control codes, or by using a printer setup utility.

The printer transmits XON/XOFF and status information to the host. The hardware busy line is true (nominal -12V) when busy. Serial output lines relax to approximately 0V when the printer is off, and the user's system must allow a short period after powering the printer on before relying on the values of these signals.

Some host equipment uses a constant space condition (+12V) to indicate a reset condition or wait state. Some battery powered host equipment presents the same output signal when they go to sleep. The DP-520 Wired printer can be set to ignore this condition as detailed in the Programmer's Manual, but even then this type of host behavior may result in one or more spurious characters being received and printed by the printer.