

# SERVICE EDGE

The Laser Printer Tech Quarterly  
SUMMER 2010

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# WHERE WOULD WE BE WITHOUT PAPER?

# PAPER!

We cannot afford to overlook the importance of paper. It is integral to government, business and society, not to mention the printer service industry. In this issue of *Service Edge*, you will find tips about paper and other media to help your customer print better.

## COMPANY NEWS

### Spring Growth LPT

Prompted by excellent first quarter sales, Liberty Parts Team has just completed a major expansion in its staff. The 15 hires include order pickers, rebuilders, RMA clerks, tech support providers, office staff, and sales reps. The company now has 76 employees.

First quarter sales were 17.2% higher than the previous year. Sales in March and April were both more than 20% higher than 2009.

## PRINTING TIPS

### Paper Quality: Tips on Choosing Paper

- Don't put ink jet paper in laser printers and vice versa. Ink jet paper is more absorbent than standard office paper, while laser printer paper is less so.

- Everyday copier paper, sometimes called plain paper, is optimized to work well in copiers and laser printers. It can be very economical, as low as .7¢ per page. Its drawbacks include lack of brightness and opacity; color documents will not look nearly as nice as on laser printer paper. Ordinary office paper also sheds paper-fibre dust that can block paper path sensors, create paper jams and possibly shorten machine life.
- Xerox has a new mechanical paper that is ecologically, economically, and mechanically sound. It costs less than .7¢ per page, reportedly creates less dust and uses fewer trees. But its brightness is a mere 84, which looks rather gray next to brighter papers.
- For use in its newer printers, HP recommends only one brand of paper: its own. HP-brand paper is a good alternative to cheaper paper. HP office paper costs 1¢ per page, and its laser paper costs 2 to 3¢ per page. Your customers should keep the "good stuff" on hand for presentations. You should also have some for testing.
- Recycled paper in LaserJets should contain no more than 5% groundwood.
- Media such as heavy paper, transparencies and labels should be kept from bending as it passes through the printer: load it in Tray 1 and allow it to exit the rear output tray.

## PRINTING MEDIA OVERVIEW FOR HP LASERJETS

Note the data is fairly consistent among the printers. The manuals for newer models recommend use of HP media.

	4xxx	5xxx	8xxx	9xxx	CLJ 3000, 3600, 3800	CLJ 35x0, 3700	46xx	4700/ CP4005	
Fuser Temp.	446° F (4345: 392°)	392° F	392° F	374° F		374° F	374° F	392° F	
Tray 1 Paper (Lbs.)	16-53	16-53	16-53	17-53	16-43	16-43	16-47	16-60	
Cassette Paper Wgt (Lbs.)	40xx/ 41xx: 16-28	42xx/ 43xx: 16-32	16-53 au.duplex 28 max	16-28	17-53	16-32	16-28	16-28	16-32
Labels <i>Must be laser-compatible</i>	Although only a few models (4000, 9000 for example) recommend using Tray 1 only for labels, we suggest this restriction be applied to all printers. The rear output tray should be used. LABELS MUST BE LASER COMPATIBLE, have no labels missing, have no exposed backing, be able to withstand fuser temperatures and curl no more than half an inch when laying flat (see picture).								
Transparencies <i>Must be laser-compatible</i>	Newer printers (Models beginning with letters like the P4015) should use appropriate HP LaserJet media. Older ones, such as the ones listed at the column heads, should verify the media is not only laser-compatible, but also compatible with the fuser temperature.								
Envelopes	Envelopes need to be flat, without peel-off backing, and probably without windows. Use tray 1 and the rear output tray. See article on page four for more information.								
Card Stock	Tray one only, send to rear output tray.								
Not recommended	Unless indicated for use in laser printers, media that is chemically-treated, coated, or synthetic should not be used with LaserJets. Also inappropriate are embossed media and media with cut-outs or perforations.								

## PRINTING TIPS

### "Have You Tried HP Smart Web Printing?"

Your clients will like this tip not merely because it will save paper and toner. It will also give them a measure of control over the internet and improve company intercommunication. That is a lot of good will generated for five minutes of your time.

This is an experience everyone has had: you print a web page and you end up with three pieces of paper: page one has banner material and half of the desired material, page two has the rest of it, and page three is nearly blank.

While you can exclude pages in Print Preview in the software menu, this is a limited solution. It is also possible to create a screen snapshot and then open and print the resulting image file. This also takes time and the snapshot software may not let you scroll down the page if some of it exceeds the viewing area.

HP has an elegant solution, and it's free. Clicking a toolbar icon allows you to select a portion of the web page and then either print it or save it as a file. It will print just what you wanted, no menus, web ads or copy-right lines. You may not even need a staple.



You can select areas to print on Windows Internet Explorer with the HP Smart Web Printing Software. It is bundled with new HP printers and is free on the HP web site.

Requirements. HP Smart Web Printing is bundled with new HP printers and is also a free downloadable on the HP web site. Although compatible with non-HP printers, this software only works with the Internet Explorer browser for Windows PC. If your customer uses other Windows browsers, they might try Screenhunter or a similar screen snapshot software which saves a selected area of as a jpeg image, which can be opened and printed. Macs take screen shots natively (press Apple key, Shift, and 4).



## Paper History

3,000 BCE	Egyptians manufacture papyrus from overlapping strips of sedge plant pith.
105 CE	Chinese official Ts'ai Lun creates a sheet of paper using the inner bark of trees, fishnets, old rags, and hemp waste. Certain paper is still made from rags today.
3rd cent.	Woodblock printing in China (Wikipedia)
751	Papermaking reaches Samarkand, in Central Asia
793	Papermaking begins in Baghdad during the golden age of Islamic culture. Papermaking soon reaches the frontiers of Europe.
14th cent.	Documentation of paper mills in Europe including Spain, Italy, France and Germany.

Source unless otherwise indicated: *papermaking*. Encyclopædia Britannica Online School Edition.

15th cent	Gutenberg brings profit to printing by inventing "the first complete printing system." His press, with its metal moveable type, could produce 3,600 pages per workday.
1774	Chlorine is discovered. It would eventually be used to bleach paper.
19th cent.	 <p>A machine that transforms wood pulp to a final paper product is realized. The paper industry is gradually relieved of its centuries-old dependency upon cotton and linen rags. Large-scale paper production becomes possible. The Fourdrinier machine remains the basis for modern papermaking. (Photo is of a modern descendant).</p>

## PRINTING TIPS

## Envelope Printing Tips for 2010

This general article will help printer techs assist clients with envelope printing. For specific information, check the appropriate HP Service Manual at lbrty.com, the Liberty Parts Team web site.

Modern LaserJets have two settings to prepare the printer to handle envelopes and a third setting to adjust the fuser temperature if the print quality is not satisfactory. Unless you are using an envelope feeder, envelopes need to be loaded from the multi-purpose tray (Tray 1). Go to the Paper Handling Menu and set Tray 1 "Type" to "Envelope" and Tray 1 "Size" to the size you are using. Typical envelope options are:

- Commercial #10 105 x 241 mm (4.1 x 9.5 inches)
- DL ISO 110 x 220 mm (4.3 x 8.7 inches)
- C5 ISO 162 x 229 mm (6.4 x 9.0 inches)
- B5 ISO 176 x 250 mm (6.9 x 9.8 inches)
- Monarch #7-3/4 98 x 191 mm (3.9 x 7.5 inches)

If you have an envelope feeder installed, you should find these same settings (under Paper Handling) for the feeder. Either way, the printer may prompt you to verify paper size and type when you initially load the tray or feeder (because it is physically possible for you to load a different size or type than you have specified in the menu). Once you do this, you are ready to print.

If you experience poor fusing, there is a way to increase fuser temperature. Likewise, you can reduce the temperature if the media is curling at the corners or shows other signs of deterioration. On most newer HP printers, you will find FUSER MODES or CONFIGURE FUSER MODE as a sub-menu under either Paper Handling or Print Quality (these, in turn, may be sub-menus under Configure Device). Typically, this menu consists of a list of paper types with a temperature setting for each type. The default setting for most paper types is "normal." Other options are "low" (mainly for transparencies) and "high" (for envelopes, labels, card stock, etc.). On some models, there are two "high" settings: "high1" and "high2" (usually the same temperature as "high1," but it also slows down paper movement so that the paper spends more time in the fuser).

**IMPORTANT NOTE:** The fuser temperature settings are tied to specific paper types, and thus will only be applied when feeding from a tray (or feeder) that is defined as a specific type. In particular, if Tray 1 is set to "Mode = First" or "Type = Any," you will not get any temperature correction when printing from that tray – even if you have changed the setting to "High" for

every paper type in the menu, the printer will still run the fuser at the "Normal" temperature.

**IMPORTANT NOTE #2:** Most monochrome HP LaserJets with LCD displays and 4-digit model numbers have fuser temperature corrections in the menu, but most of the following do not:

- Non-HP printers (Lexmark, etc.)
- Older models with Roman numeral or single-digit model numbers
- Smaller "personal" printers with no LCD display
- Color LaserJets

Some of these (particularly the color models) may automatically adjust fuser temperature for certain paper types, but this is undocumented.

On printers that have fusers with solid metal upper rollers, it is possible for envelopes to wrinkle as they go through the fuser. Many HP printers of this type have envelope levers on the fuser that should be raised when printing envelopes (you have to do this manually). Lexmark Optra S, Optra T, and T series printers have an "envelope enhance" setting in the menus – when this is turned on, the printer automatically fires a solenoid in the fuser when printing envelopes. Both of these methods essentially accomplish the same thing: releasing some of the pressure between the fuser rollers so that the envelope can "breathe" as it goes through the fuser. Printers that have solid metal fuser rollers, but do not have either of these pressure-release mechanisms, are probably not good printers to use for envelopes.

#### Basic Envelope Tips

In general, observe the following.

- Print from Tray 1 using the rear face-up bin to ensure a straight path.
- Don't use envelopes with peel-off backing, as the heat may cause the paper to come off inside the printer.
- Position margins no closer than .6 inches from edges.

With a few exceptions, satisfactory results can be had when laser printing on envelopes if the settings are right.



## SPECIAL FEATURE

## The Constitution

We at Liberty Parts Team, in this special issue devoted to paper, wish to pay tribute to the most significant secular use of paper in history, the United States Constitution. Adopted in 1787, it is the oldest written constitution still in use by a nation. More importantly, it is a culmination of human political thought with roots that stretch back to Roman concern for checks and balances, to Locke's and Montesquieu's writings on the separation of powers, to Magna Carta and English common law for due process, and to Enlightenment writings on the rights of man. It fulfills the wonderful promise of the Declaration of Independence, which tied government to the "Unalienable rights" of its citizens: "That to secure these rights, Governments are instituted among Men."

## The Constitution of the United States

### Preamble

We the People of the United States, in Order to form a more perfect Union, establish Justice, insure domestic Tranquility, provide for the common defence, promote the general Welfare, and secure the Blessings of Liberty to ourselves and our Posterity, do ordain and establish this Constitution for the United States of America.

### Article I - The Legislative Branch

#### Section 1 - The Legislature

All legislative Powers herein granted shall be vested in a Congress of the United States, which shall consist of a Senate and House of Representatives.

#### Section 2 - The House

The House of Representatives shall be composed of Members chosen every second Year by the People of the several States, and the Electors in each State shall have the Qualifications requisite for Electors of the most numerous Branch of the State Legislature.

No Person shall be a Representative who shall not have attained to the Age of twenty five Years, and been seven Years a Citizen of the United States, and who shall not, when elected, be an Inhabitant of that State in which he shall be chosen.

(Representatives and direct Taxes shall be apportioned among the several States which may be included within this Union, according to their respective Numbers, which shall be determined by adding to the whole Number of free Persons, including those bound to Service for a Term of Years, and excluding Indians not taxed, three fifths of all other Persons.) *(The preceding sentence in parentheses was modified by the 14th Amendment, section 2.)* The actual Enumeration shall be made within three Years after the first Meeting of the Congress of the United States, and within every subsequent Term of ten Years, in such Manner as they shall by Law direct. The Number of Representatives shall not exceed one for every thirty Thousand, but each State shall have at Least one Representative; and until such enumeration shall be made, the State of New Hampshire shall be entitled to chuse three, Massachusetts eight, Rhode Island and Providence Plantations one, Connecticut five, New York six, New Jersey four, Pennsylvania eight, Delaware one, Maryland six, Virginia ten, North Carolina five, South Carolina five and Georgia three.

When vacancies happen in the Representation from any State, the Executive Authority thereof shall issue Writs of Election to fill such Vacancies.

The House of Representatives shall chuse their Speaker and other Officers; and shall have the sole Power of Impeachment.

#### Section 3 - The Senate

The Senate of the United States shall be composed of two Senators from each State, (chosen by the Legislature thereof,) *(The preceding words in parentheses superseded by 17th Amendment, section 1.)* for six Years; and each Sena-

This text was obtained from the web site [usconstitution.net](http://usconstitution.net), which has additional background material. Their notes have been italicized. I have left intact the archaic capitalizations of nouns and strange spellings. However, I removed the unnecessary apostrophe from "it's," in Article 1, Section 10. Save for the one apostrophe, it is all here.

There is frequent mention of someone called a *President pro tempore*. This is the highest-ranking official in the Senate after the Vice President, and is third in line of succession to the President. He is elected by the Senate and is usually the most senior senator from the majority party. Currently, it is Robert Byrd.

tor shall have one Vote.

Immediately after they shall be assembled in Consequence of the first Election, they shall be divided as equally as may be into three Classes. The Seats of the Senators of the first Class shall be vacated at the Expiration of the second Year, of the second Class at the Expiration of the fourth Year, and of the third Class at the Expiration of the sixth Year, so that one third may be chosen every second Year; (and if Vacancies happen by Resignation, or otherwise, during the Recess of the Legislature of any State, the Executive thereof may make temporary Appointments until the next Meeting of the Legislature, which shall then fill such Vacancies.) *(The preceding words in parentheses were superseded by the 17th Amendment, section 2.)*

No person shall be a Senator who shall not have attained to the Age of thirty Years, and been nine Years a Citizen of the United States, and who shall not, when elected, be an Inhabitant of that State for which he shall be chosen.

The Vice President of the United States shall be President of the Senate, but shall have no Vote, unless they be equally divided.

The Senate shall chuse their other Officers, and also a President pro tempore, in the absence of the Vice President, or when he shall exercise the Office of President of the United States.

The Senate shall have the sole Power to try all Impeachments. When sitting for that Purpose, they shall be on Oath or Affirmation. When the President of the United States is tried, the Chief Justice shall preside: And no Person shall be convicted without the Concurrence of two thirds of the Members present.

Judgment in Cases of Impeachment shall not extend further than to removal from Office, and disqualification to hold and enjoy any Office of honor, Trust or Profit under the United States: but the Party convicted shall nevertheless be liable and subject to Indictment, Trial, Judgment and Punishment, according to Law.

#### Section 4 - Elections, Meetings

The Times, Places and Manner of holding Elections for Senators and Representatives, shall be prescribed in each State by the Legislature thereof; but the Congress may at any time by Law make or alter such Regulations, except as to the Place of Chusing Senators.

The Congress shall assemble at least once in every Year, and such Meeting shall (be on the first Monday in December,) *(The preceding words in parentheses were superseded by the 20th Amendment, section 2.)* unless they shall by Law appoint a different Day.

#### Section 5 - Membership, Rules, Journals, Adjournment

Each House shall be the Judge of the Elections, Returns and Qualifications of its own Members, and a Majority of each shall constitute a Quorum to do Business; but a smaller number may adjourn from day to day, and may be authorized to compel the Attendance of absent Members, in such Manner, and under such Penalties as each House may provide.

Each House may determine the Rules of its Proceedings, punish its Mem-

bers for disorderly Behavior, and, with the Concurrence of two-thirds, expel a Member.

Each House shall keep a Journal of its Proceedings, and from time to time publish the same, excepting such Parts as may in their Judgment require Secrecy; and the Yeas and Nays of the Members of either House on any question shall, at the Desire of one fifth of those Present, be entered on the Journal.

Neither House, during the Session of Congress, shall, without the Consent of the other, adjourn for more than three days, nor to any other Place than that in which the two Houses shall be sitting.

#### Section 6 - Compensation

(The Senators and Representatives shall receive a Compensation for their Services, to be ascertained by Law, and paid out of the Treasury of the United States.) *(The preceding words in parentheses were modified by the 27th Amendment.)* They shall in all Cases, except Treason, Felony and Breach of the Peace, be privileged from Arrest during their Attendance at the Session of their respective Houses, and in going to and returning from the same; and for any Speech or Debate in either House, they shall not be questioned in any other Place.

No Senator or Representative shall, during the Time for which he was elected, be appointed to any civil Office under the Authority of the United States which shall have been created, or the Emoluments whereof shall have been increased during such time; and no Person holding any Office under the United States, shall be a Member of either House during his Continuance in Office.

#### Section 7 - Revenue Bills, Legislative Process, Presidential Veto

All bills for raising Revenue shall originate in the House of Representatives; but the Senate may propose or concur with Amendments as on other Bills.

Every Bill which shall have passed the House of Representatives and the Senate, shall, before it become a Law, be presented to the President of the United States; If he approve he shall sign it, but if not he shall return it, with his Objections to that House in which it shall have originated, who shall enter the Objections at large on their Journal, and proceed to reconsider it. If after such Reconsideration two thirds of that House shall agree to pass the Bill, it shall be sent, together with the Objections, to the other House, by which it shall likewise be reconsidered, and if approved by two thirds of that House, it shall become a Law. But in all such Cases the Votes of both Houses shall be determined by Yeas and Nays, and the Names of the Persons voting for and against the Bill shall be entered on the Journal of each House respectively. If any Bill shall not be returned by the President within ten Days (Sundays excepted) after it shall have been presented to him, the Same shall be a Law, in like Manner as if he had signed it, unless the Congress by their Adjournment prevent its Return, in which Case it shall not be a Law.

Every Order, Resolution, or Vote to which the Concurrence of the Senate and House of Representatives may be necessary (except on a question of Adjournment) shall be presented to the President of the United States; and before the Same shall take Effect, shall be approved by him, or being disapproved by him, shall be repassed by two thirds of the Senate and House of Representatives, according to the Rules and Limitations prescribed in the Case of a Bill.

#### Section 8 - Powers of Congress

The Congress shall have Power To lay and collect Taxes, Duties, Imposts and Excises, to pay the Debts and provide for the common Defence and general Welfare of the United States; but all Duties, Imposts and Excises shall be uniform throughout the United States;

To borrow money on the credit of the United States;

To regulate Commerce with foreign Nations, and among the several States, and with the Indian Tribes;

To establish a uniform Rule of Naturalization, and uniform Laws on the subject of Bankruptcies throughout the United States;

To coin Money, regulate the Value thereof, and of foreign Coin, and fix the Standard of Weights and Measures;

To provide for the Punishment of counterfeiting the Securities and current Coin of the United States;

To establish Post Offices and Post Roads;

To promote the Progress of Science and useful Arts, by securing for limited Times to Authors and Inventors the exclusive Right to their respective Writings and Discoveries;

To constitute Tribunals inferior to the supreme Court;

To define and punish Piracies and Felonies committed on the high Seas, and Offenses against the Law of Nations;

To declare War, grant Letters of Marque and Reprisal, and make Rules concerning Captures on Land and Water;

To raise and support Armies, but no Appropriation of Money to that Use shall be for a longer Term than two Years;

To provide and maintain a Navy;

To make Rules for the Government and Regulation of the land and naval Forces;

To provide for calling forth the Militia to execute the Laws of the Union, suppress Insurrections and repel Invasions;

To provide for organizing, arming, and disciplining, the Militia, and for governing such Part of them as may be employed in the Service of the United States, reserving to the States respectively, the Appointment of the Officers, and the Authority of training the Militia according to the discipline prescribed by Congress;

To exercise exclusive Legislation in all Cases whatsoever, over such District (not exceeding ten Miles square) as may, by Cession of particular States, and the acceptance of Congress, become the Seat of the Government of the United States, and to exercise like Authority over all Places purchased by the Consent of the Legislature of the State in which the Same shall be, for the Erection of Forts, Magazines, Arsenals, dock-Yards, and other needful Buildings; And

To make all Laws which shall be necessary and proper for carrying into Execution the foregoing Powers, and all other Powers vested by this Constitution in the Government of the United States, or in any Department or Officer thereof.

#### Section 9 - Limits on Congress

The Migration or Importation of such Persons as any of the States now existing shall think proper to admit, shall not be prohibited by the Congress prior to the Year one thousand eight hundred and eight, but a tax or duty may be imposed on such Importation, not exceeding ten dollars for each Person.

The privilege of the Writ of Habeas Corpus shall not be suspended, unless when in Cases of Rebellion or Invasion the public Safety may require it.

No Bill of Attainder or ex post facto Law shall be passed.

(No capitation, or other direct, Tax shall be laid, unless in Proportion to the Census or Enumeration herein before directed to be taken.) *(Section in parentheses clarified by the 16th Amendment.)*

No Tax or Duty shall be laid on Articles exported from any State.

No Preference shall be given by any Regulation of Commerce or Revenue to the Ports of one State over those of another: nor shall Vessels bound to, or from, one State, be obliged to enter, clear, or pay Duties in another.

No Money shall be drawn from the Treasury, but in Consequence of Appropriations made by Law; and a regular Statement and Account of the Receipts and Expenditures of all public Money shall be published from time to time.

No Title of Nobility shall be granted by the United States: And no Person holding any Office of Profit or Trust under them, shall, without the Consent of the Congress, accept of any present, Emolument, Office, or Title, of any kind whatever, from any King, Prince or foreign State.

#### Section 10 - Powers prohibited of States

No State shall enter into any Treaty, Alliance, or Confederation; grant Letters of Marque and Reprisal; coin Money; emit Bills of Credit; make any Thing but gold and silver Coin a Tender in Payment of Debts; pass any Bill of Attainder, ex post facto Law, or Law impairing the Obligation of Contracts, or grant any Title of Nobility.

No State shall, without the Consent of the Congress, lay any Imposts or Duties on Imports or Exports, except what may be absolutely necessary for executing its inspection Laws: and the net Produce of all Duties and Imposts,

laid by any State on Imports or Exports, shall be for the Use of the Treasury of the United States; and all such Laws shall be subject to the Revision and Controul of the Congress.

No State shall, without the Consent of Congress, lay any duty of Tonnage, keep Troops, or Ships of War in time of Peace, enter into any Agreement or Compact with another State, or with a foreign Power, or engage in War, unless actually invaded, or in such imminent Danger as will not admit of delay.

#### Article II - The Executive Branch

##### Section 1 - The President

The executive Power shall be vested in a President of the United States of America. He shall hold his Office during the Term of four Years, and, together with the Vice-President chosen for the same Term, be elected, as follows:

Each State shall appoint, in such Manner as the Legislature thereof may direct, a Number of Electors, equal to the whole Number of Senators and Representatives to which the State may be entitled in the Congress: but no Senator or Representative, or Person holding an Office of Trust or Profit under the United States, shall be appointed an Elector.

(The Electors shall meet in their respective States, and vote by Ballot for two persons, of whom one at least shall not lie an Inhabitant of the same State with themselves. And they shall make a List of all the Persons voted for, and of the Number of Votes for each; which List they shall sign and certify, and transmit sealed to the Seat of the Government of the United States, directed to the President of the Senate. The President of the Senate shall, in the Presence of the Senate and House of Representatives, open all the Certificates, and the Votes shall then be counted. The Person having the greatest Number of Votes shall be the President, if such Number be a Majority of the whole Number of Electors appointed; and if there be more than one who have such Majority, and have an equal Number of Votes, then the House of Representatives shall immediately chuse by Ballot one of them for President; and if no Person have a Majority, then from the five highest on the List the said House shall in like Manner chuse the President. But in chusing the President, the Votes shall be taken by States, the Representation from each State having one Vote; a quorum for this Purpose shall consist of a Member or Members from two-thirds of the States, and a Majority of all the States shall be necessary to a Choice. In every Case, after the Choice of the President, the Person having the greatest Number of Votes of the Electors shall be the Vice President. But if there should remain two or more who have equal Votes, the Senate shall chuse from them by Ballot the Vice-President.) *(This clause in parentheses was superseded by the 12th Amendment.)*

The Congress may determine the Time of chusing the Electors, and the Day on which they shall give their Votes; which Day shall be the same throughout the United States.

No person except a natural born Citizen, or a Citizen of the United States, at the time of the Adoption of this Constitution, shall be eligible to the Office of President; neither shall any Person be eligible to that Office who shall not have attained to the Age of thirty-five Years, and been fourteen Years a Resident within the United States.

(In Case of the Removal of the President from Office, or of his Death, Resignation, or Inability to discharge the Powers and Duties of the said Office, the same shall devolve on the Vice President, and the Congress may by Law provide for the Case of Removal, Death, Resignation or Inability, both of the President and Vice President, declaring what Officer shall then act as President, and such Officer shall act accordingly, until the Disability be removed, or a President shall be elected.) *(This clause in parentheses has been modified by the 20th and 25th Amendments.)*

The President shall, at stated Times, receive for his Services, a Compensation, which shall neither be increased nor diminished during the Period for which he shall have been elected, and he shall not receive within that Period any other Emolument from the United States, or any of them.

Before he enter on the Execution of his Office, he shall take the following Oath or Affirmation:

"I do solemnly swear (or affirm) that I will faithfully execute the Office of President of the United States, and will to the best of my Ability, preserve, protect and defend the Constitution of the United States."

##### Section 2 - Civilian Power over Military, Cabinet, Pardon Power, Appointments

The President shall be Commander in Chief of the Army and Navy of the United States, and of the Militia of the several States, when called into the actual Service of the United States; he may require the Opinion, in writing, of the principal Officer in each of the executive Departments, upon any subject relating to the Duties of their respective Offices, and he shall have Power to Grant Reprieves and Pardons for Offenses against the United States, except in Cases of Impeachment.

He shall have Power, by and with the Advice and Consent of the Senate, to make Treaties, provided two thirds of the Senators present concur; and he shall nominate, and by and with the Advice and Consent of the Senate, shall appoint Ambassadors, other public Ministers and Consuls, Judges of the supreme Court, and all other Officers of the United States, whose Appointments are not herein otherwise provided for, and which shall be established by Law: but the Congress may by Law vest the Appointment of such inferior Officers, as they think proper, in the President alone, in the Courts of Law, or in the Heads of Departments.

The President shall have Power to fill up all Vacancies that may happen during the Recess of the Senate, by granting Commissions which shall expire at the End of their next Session.

##### Section 3 - State of the Union, Convening Congress

He shall from time to time give to the Congress Information of the State of the Union, and recommend to their Consideration such Measures as he shall judge necessary and expedient; he may, on extraordinary Occasions, convene both Houses, or either of them, and in Case of Disagreement between them, with Respect to the Time of Adjournment, he may adjourn them to such Time as he shall think proper; he shall receive Ambassadors and other public Ministers; he shall take Care that the Laws be faithfully executed, and shall Commission all the Officers of the United States.

##### Section 4 - Disqualification

The President, Vice President and all civil Officers of the United States, shall be removed from Office on Impeachment for, and Conviction of, Treason, Bribery, or other high Crimes and Misdemeanors.

#### Article III - The Judicial Branch

##### Section 1 - Judicial powers

The judicial Power of the United States, shall be vested in one supreme Court, and in such inferior Courts as the Congress may from time to time ordain and establish. The Judges, both of the supreme and inferior Courts, shall hold their Offices during good Behavior, and shall, at stated Times, receive for their Services a Compensation which shall not be diminished during their Continuance in Office.

##### Section 2 - Trial by Jury, Original Jurisdiction, Jury Trials

(The judicial Power shall extend to all Cases, in Law and Equity, arising under this Constitution, the Laws of the United States, and Treaties made, or which shall be made, under their Authority; to all Cases affecting Ambassadors, other public Ministers and Consuls; to all Cases of admiralty and maritime Jurisdiction; to Controversies to which the United States shall be a Party; to Controversies between two or more States; between a State and Citizens of another State; between Citizens of different States; between Citizens of the same State claiming Lands under Grants of different States, and between a State, or the Citizens thereof, and foreign States, Citizens or Subjects.) *(This section in parentheses is modified by the 11th Amendment.)*

In all Cases affecting Ambassadors, other public Ministers and Consuls, and those in which a State shall be Party, the supreme Court shall have original Jurisdiction. In all the other Cases before mentioned, the supreme Court shall have appellate Jurisdiction, both as to Law and Fact, with such Exceptions, and under such Regulations as the Congress shall make.

The Trial of all Crimes, except in Cases of Impeachment, shall be by Jury; and such Trial shall be held in the State where the said Crimes shall have been committed; but when not committed within any State, the Trial shall be at such Place or Places as the Congress may by Law have directed.

##### Section 3 - Treason

Treason against the United States, shall consist only in levying War against them, or in adhering to their Enemies, giving them Aid and Comfort. No Person shall be convicted of Treason unless on the Testimony of two Witnesses to the same overt Act, or on Confession in open Court.

The Congress shall have power to declare the Punishment of Treason, but no

Attainder of Treason shall work Corruption of Blood, or Forfeiture except during the Life of the Person attained.

#### Article IV - The States

##### Section 1 - Each State to Honor all others

Full Faith and Credit shall be given in each State to the public Acts, Records, and judicial Proceedings of every other State. And the Congress may by general Laws prescribe the Manner in which such Acts, Records and Proceedings shall be proved, and the Effect thereof.

##### Section 2 - State citizens, Extradition

The Citizens of each State shall be entitled to all Privileges and Immunities of Citizens in the several States.

A Person charged in any State with Treason, Felony, or other Crime, who shall flee from Justice, and be found in another State, shall on demand of the executive Authority of the State from which he fled, be delivered up, to be removed to the State having Jurisdiction of the Crime.

(No Person held to Service or Labour in one State, under the Laws thereof, escaping into another, shall, in Consequence of any Law or Regulation therein, be discharged from such Service or Labour, But shall be delivered up on Claim of the Party to whom such Service or Labour may be due.) (*This clause in parentheses is superseded by the 13th Amendment.*)

##### Section 3 - New States

New States may be admitted by the Congress into this Union; but no new States shall be formed or erected within the Jurisdiction of any other State; nor any State be formed by the Junction of two or more States, or parts of States, without the Consent of the Legislatures of the States concerned as well as of the Congress.

The Congress shall have Power to dispose of and make all needful Rules and Regulations respecting the Territory or other Property belonging to the United States; and nothing in this Constitution shall be so construed as to Prejudice any Claims of the United States, or of any particular State.

##### Section 4 - Republican government

The United States shall guarantee to every State in this Union a Republican Form of Government, and shall protect each of them against Invasion; and on Application of the Legislature, or of the Executive (when the Legislature cannot be convened) against domestic Violence.

#### Article V - Amendment

The Congress, whenever two thirds of both Houses shall deem it necessary, shall propose Amendments to this Constitution, or, on the Application of the Legislatures of two thirds of the several States, shall call a Convention for proposing Amendments, which, in either Case, shall be valid to all Intents and Purposes, as part of this Constitution, when ratified by the Legislatures of three fourths of the several States, or by Conventions in three fourths thereof, as the one or the other Mode of Ratification may be proposed by the Congress; Provided that no Amendment which may be made prior to the Year One thousand eight hundred and eight shall in any Manner affect the first and fourth Clauses in the Ninth Section of the first Article; and that no State, without its Consent, shall be deprived of its equal Suffrage in the Senate.

#### Article VI - Debts, Supremacy, Oaths

All Debts contracted and Engagements entered into, before the Adoption of this Constitution, shall be as valid against the United States under this Constitution, as under the Confederation.

This Constitution, and the Laws of the United States which shall be made in Pursuance thereof; and all Treaties made, or which shall be made, under the Authority of the United States, shall be the supreme Law of the Land; and the Judges in every State shall be bound thereby, any Thing in the Constitution or Laws of any State to the Contrary notwithstanding.

The Senators and Representatives before mentioned, and the Members of the several State Legislatures, and all executive and judicial Officers, both of the United States and of the several States, shall be bound by Oath or Affirmation, to support this Constitution; but no religious Test shall ever be required as a Qualification to any Office or public Trust under the United States.

#### Article VII - Ratification Documents

The Ratification of the Conventions of nine States, shall be sufficient for the Establishment of this Constitution between the States so ratifying the Same.

Done in Convention by the Unanimous Consent of the States present the Seventeenth Day of September in the Year of our Lord one thousand seven hundred and Eighty seven and of the Independence of the United States of America the Twelfth. In Witness whereof We have hereunto subscribed our Names.

Go Washington - President and deputy from Virginia

New Hampshire - John Langdon, Nicholas Gilman

Massachusetts - Nathaniel Gorham, Rufus King

Connecticut - Wm Saml Johnson, Roger Sherman

New York - Alexander Hamilton

New Jersey - Wil Livingston, David Brearley, Wm Paterson, Jona. Dayton

Pensylvania - B Franklin, Thomas Mifflin, Robt Morris, Geo. Clymer, Thos FitzSimons, Jared Ingersoll, James Wilson, Gouv Morris

Delaware - Geo. Read, Gunning Bedford jun, John Dickinson, Richard Bassett, Jaco. Broom

Maryland - James McHenry, Dan of St Tho Jenifer, Danl Carroll

Virginia - John Blair, James Madison Jr.

North Carolina - Wm Blount, Richd Dobbs Spaight, Hu Williamson

South Carolina - J. Rutledge, Charles Cotesworth Pinckney, Charles Pinckney, Pierce Butler

Georgia - William Few, Abr Baldwin

Attest: William Jackson, Secretary

#### The Amendments

*The following are the Amendments to the Constitution. The first ten Amendments collectively are commonly known as the Bill of Rights.*

##### Amendment 1 - Freedom of Religion, Press, Expression. Ratified 12/15/1791.

Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; or the right of the people peaceably to assemble, and to petition the Government for a redress of grievances.

##### Amendment 2 - Right to Bear Arms. Ratified 12/15/1791.

A well regulated Militia, being necessary to the security of a free State, the right of the people to keep and bear Arms, shall not be infringed.

##### Amendment 3 - Quartering of Soldiers. Ratified 12/15/1791.

No Soldier shall, in time of peace be quartered in any house, without the consent of the Owner, nor in time of war, but in a manner to be prescribed by law.

##### Amendment 4 - Search and Seizure. Ratified 12/15/1791.

The right of the people to be secure in their persons, houses, papers, and effects, against unreasonable searches and seizures, shall not be violated, and no Warrants shall issue, but upon probable cause, supported by Oath or affirmation, and particularly describing the place to be searched, and the persons or things to be seized.

##### Amendment 5 - Trial and Punishment, Compensation for Takings. Ratified 12/15/1791.

No person shall be held to answer for a capital, or otherwise infamous crime, unless on a presentment or indictment of a Grand Jury, except in cases arising in the land or naval forces, or in the Militia, when in actual service in time of War or public danger; nor shall any person be subject for the same offense to be twice put in jeopardy of life or limb; nor shall be compelled in any criminal case to be a witness against himself, nor be deprived of life, liberty, or property, without due process of law; nor shall private property be taken for public use, without just compensation.

##### Amendment 6 - Right to Speedy Trial, Confrontation of Witnesses. Ratified 12/15/1791.

In all criminal prosecutions, the accused shall enjoy the right to a speedy and public trial, by an impartial jury of the State and district wherein the crime shall have been committed, which district shall have been previously ascer-

tained by law, and to be informed of the nature and cause of the accusation; to be confronted with the witnesses against him; to have compulsory process for obtaining witnesses in his favor, and to have the Assistance of Counsel for his defence.

##### Amendment 7 - Trial by Jury in Civil Cases. Ratified 12/15/1791.

In Suits at common law, where the value in controversy shall exceed twenty dollars, the right of trial by jury shall be preserved, and no fact tried by a jury, shall be otherwise re-examined in any Court of the United States, than according to the rules of the common law.

##### Amendment 8 - Cruel and Unusual Punishment. Ratified 12/15/1791.

Excessive bail shall not be required, nor excessive fines imposed, nor cruel and unusual punishments inflicted.

##### Amendment 9 - Construction of Constitution. Ratified 12/15/1791.

The enumeration in the Constitution, of certain rights, shall not be construed to deny or disparage others retained by the people.

##### Amendment 10 - Powers of the States and People. Ratified 12/15/1791.

The powers not delegated to the United States by the Constitution, nor prohibited by it to the States, are reserved to the States respectively, or to the people.

##### Amendment 11 - Judicial Limits. Ratified 2/7/1795.

The Judicial power of the United States shall not be construed to extend to any suit in law or equity, commenced or prosecuted against one of the United States by Citizens of another State, or by Citizens or Subjects of any Foreign State.

##### Amendment 12 - Choosing the President, Vice-President. Ratified 6/15/1804.

The Electors shall meet in their respective states, and vote by ballot for President and Vice-President, one of whom, at least, shall not be an inhabitant of the same state with themselves; they shall name in their ballots the person voted for as President, and in distinct ballots the person voted for as Vice-President, and they shall make distinct lists of all persons voted for as President, and of all persons voted for as Vice-President and of the number of votes for each, which lists they shall sign and certify, and transmit sealed to the seat of the government of the United States, directed to the President of the Senate;

The President of the Senate shall, in the presence of the Senate and House of Representatives, open all the certificates and the votes shall then be counted;

The person having the greatest Number of votes for President, shall be the President, if such number be a majority of the whole number of Electors appointed; and if no person have such majority, then from the persons having the highest numbers not exceeding three on the list of those voted for as President, the House of Representatives shall choose immediately, by ballot, the President. But in choosing the President, the votes shall be taken by states, the representation from each state having one vote; a quorum for this purpose shall consist of a member or members from two-thirds of the states, and a majority of all the states shall be necessary to a choice. And if the House of Representatives shall not choose a President whenever the right of choice shall devolve upon them, before the fourth day of March next following, then the Vice-President shall act as President, as in the case of the death or other constitutional disability of the President.

The person having the greatest number of votes as Vice-President, shall be the Vice-President, if such number be a majority of the whole number of Electors appointed, and if no person have a majority, then from the two highest numbers on the list, the Senate shall choose the Vice-President; a quorum for the purpose shall consist of two-thirds of the whole number of Senators, and a majority of the whole number shall be necessary to a choice. But no person constitutionally ineligible to the office of President shall be eligible to that of Vice-President of the United States.

##### Amendment 13 - Slavery Abolished. Ratified 12/6/1865.

1. Neither slavery nor involuntary servitude, except as a punishment for crime whereof the party shall have been duly convicted, shall exist within the United States, or any place subject to their jurisdiction.

2. Congress shall have power to enforce this article by appropriate legislation.

#### Amendment 14 - Citizenship Rights. Ratified 7/9/1868.

1. All persons born or naturalized in the United States, and subject to the jurisdiction thereof, are citizens of the United States and of the State wherein they reside. No State shall make or enforce any law which shall abridge the privileges or immunities of citizens of the United States; nor shall any State deprive any person of life, liberty, or property, without due process of law; nor deny to any person within its jurisdiction the equal protection of the laws.

2. Representatives shall be apportioned among the several States according to their respective numbers, counting the whole number of persons in each State, excluding Indians not taxed. But when the right to vote at any election for the choice of electors for President and Vice-President of the United States, Representatives in Congress, the Executive and Judicial officers of a State, or the members of the Legislature thereof, is denied to any of the male inhabitants of such State, being twenty-one years of age, and citizens of the United States, or in any way abridged, except for participation in rebellion, or other crime, the basis of representation therein shall be reduced in the proportion which the number of such male citizens shall bear to the whole number of male citizens twenty-one years of age in such State.

3. No person shall be a Senator or Representative in Congress, or elector of President and Vice-President, or hold any office, civil or military, under the United States, or under any State, who, having previously taken an oath, as a member of Congress, or as an officer of the United States, or as a member of any State legislature, or as an executive or judicial officer of any State, to support the Constitution of the United States, shall have engaged in insurrection or rebellion against the same, or given aid or comfort to the enemies thereof. But Congress may by a vote of two-thirds of each House, remove such disability.

4. The validity of the public debt of the United States, authorized by law, including debts incurred for payment of pensions and bounties for services in suppressing insurrection or rebellion, shall not be questioned. But neither the United States nor any State shall assume or pay any debt or obligation incurred in aid of insurrection or rebellion against the United States, or any claim for the loss or emancipation of any slave; but all such debts, obligations and claims shall be held illegal and void.

5. The Congress shall have power to enforce, by appropriate legislation, the provisions of this article.

##### Amendment 15 - Race No Bar to Vote. Ratified 2/3/1870.

1. The right of citizens of the United States to vote shall not be denied or abridged by the United States or by any State on account of race, color, or previous condition of servitude.

2. The Congress shall have power to enforce this article by appropriate legislation.

##### Amendment 16 - Status of Income Tax Clarified. Ratified 2/3/1913.

The Congress shall have power to lay and collect taxes on incomes, from whatever source derived, without apportionment among the several States, and without regard to any census or enumeration.

##### Amendment 17 - Senators Elected by Popular Vote. Ratified 4/8/1913.

The Senate of the United States shall be composed of two Senators from each State, elected by the people thereof, for six years; and each Senator shall have one vote. The electors in each State shall have the qualifications requisite for electors of the most numerous branch of the State legislatures.

When vacancies happen in the representation of any State in the Senate, the executive authority of such State shall issue writs of election to fill such vacancies: Provided, That the legislature of any State may empower the executive thereof to make temporary appointments until the people fill the vacancies by election as the legislature may direct.

This amendment shall not be so construed as to affect the election or term of any Senator chosen before it becomes valid as part of the Constitution.

##### Amendment 18 - Liquor Abolished. Ratified 1/16/1919. Repealed by Amendment 21, 12/5/1933.

1. After one year from the ratification of this article the manufacture, sale, or transportation of intoxicating liquors within, the importation thereof into, or the exportation thereof from the United States and all territory subject to the jurisdiction thereof for beverage purposes is hereby prohibited.

- The Congress and the several States shall have concurrent power to enforce this article by appropriate legislation.
- This article shall be inoperative unless it shall have been ratified as an amendment to the Constitution by the legislatures of the several States, as provided in the Constitution, within seven years from the date of the submission hereof to the States by the Congress.

**Amendment 19 - Women's Suffrage. Ratified 8/18/1920.**

The right of citizens of the United States to vote shall not be denied or abridged by the United States or by any State on account of sex.

Congress shall have power to enforce this article by appropriate legislation.

**Amendment 20 - Presidential, Congressional Terms. Ratified 1/23/1933.**

1. The terms of the President and Vice President shall end at noon on the 20th day of January, and the terms of Senators and Representatives at noon on the 3d day of January, of the years in which such terms would have ended if this article had not been ratified; and the terms of their successors shall then begin.

2. The Congress shall assemble at least once in every year, and such meeting shall begin at noon on the 3d day of January, unless they shall by law appoint a different day.

3. If, at the time fixed for the beginning of the term of the President, the President elect shall have died, the Vice President elect shall become President. If a President shall not have been chosen before the time fixed for the beginning of his term, or if the President elect shall have failed to qualify, then the Vice President elect shall act as President until a President shall have qualified; and the Congress may by law provide for the case wherein neither a President elect nor a Vice President elect shall have qualified, declaring who shall then act as President, or the manner in which one who is to act shall be selected, and such person shall act accordingly until a President or Vice President shall have qualified.

4. The Congress may by law provide for the case of the death of any of the persons from whom the House of Representatives may choose a President whenever the right of choice shall have devolved upon them, and for the case of the death of any of the persons from whom the Senate may choose a Vice President whenever the right of choice shall have devolved upon them.

5. Sections 1 and 2 shall take effect on the 15th day of October following the ratification of this article.

6. This article shall be inoperative unless it shall have been ratified as an amendment to the Constitution by the legislatures of three-fourths of the several States within seven years from the date of its submission.

**Amendment 21 - Amendment 18 Repealed. Ratified 12/5/1933.**

1. The eighteenth article of amendment to the Constitution of the United States is hereby repealed.

2. The transportation or importation into any State, Territory, or possession of the United States for delivery or use therein of intoxicating liquors, in violation of the laws thereof, is hereby prohibited.

3. The article shall be inoperative unless it shall have been ratified as an amendment to the Constitution by conventions in the several States, as provided in the Constitution, within seven years from the date of the submission hereof to the States by the Congress.

**Amendment 22 - Presidential Term Limits. Ratified 2/27/1951.**

1. No person shall be elected to the office of the President more than twice, and no person who has held the office of President, or acted as President, for more than two years of a term to which some other person was elected President shall be elected to the office of the President more than once. But this Article shall not apply to any person holding the office of President, when this Article was proposed by the Congress, and shall not prevent any person who may be holding the office of President, or acting as President, during the term within which this Article becomes operative from holding the office of President or acting as President during the remainder of such term.

2. This article shall be inoperative unless it shall have been ratified as an amendment to the Constitution by the legislatures of three-fourths of the several States within seven years from the date of its submission to the States by the Congress.

**Amendment 23 - Presidential Vote for District of Columbia. Ratified**

3/29/1961.

1. The District constituting the seat of Government of the United States shall appoint in such manner as the Congress may direct: A number of electors of President and Vice President equal to the whole number of Senators and Representatives in Congress to which the District would be entitled if it were a State, but in no event more than the least populous State; they shall be in addition to those appointed by the States, but they shall be considered, for the purposes of the election of President and Vice President, to be electors appointed by a State; and they shall meet in the District and perform such duties as provided by the twelfth article of amendment.

2. The Congress shall have power to enforce this article by appropriate legislation.

**Amendment 24 - Poll Tax Barred. Ratified 1/23/1964.**

1. The right of citizens of the United States to vote in any primary or other election for President or Vice President, for electors for President or Vice President, or for Senator or Representative in Congress, shall not be denied or abridged by the United States or any State by reason of failure to pay any poll tax or other tax.

2. The Congress shall have power to enforce this article by appropriate legislation.

**Amendment 25 - Presidential Disability and Succession. Ratified 2/10/1967.**

1. In case of the removal of the President from office or of his death or resignation, the Vice President shall become President.

2. Whenever there is a vacancy in the office of the Vice President, the President shall nominate a Vice President who shall take office upon confirmation by a majority vote of both Houses of Congress.

3. Whenever the President transmits to the President pro tempore of the Senate and the Speaker of the House of Representatives his written declaration that he is unable to discharge the powers and duties of his office, and until he transmits to them a written declaration to the contrary, such powers and duties shall be discharged by the Vice President as Acting President.

4. Whenever the Vice President and a majority of either the principal officers of the executive departments or of such other body as Congress may by law provide, transmit to the President pro tempore of the Senate and the Speaker of the House of Representatives their written declaration that the President is unable to discharge the powers and duties of his office, the Vice President shall immediately assume the powers and duties of the office as Acting President.

Thereafter, when the President transmits to the President pro tempore of the Senate and the Speaker of the House of Representatives his written declaration that no inability exists, he shall resume the powers and duties of his office unless the Vice President and a majority of either the principal officers of the executive department or of such other body as Congress may by law provide, transmit within four days to the President pro tempore of the Senate and the Speaker of the House of Representatives their written declaration that the President is unable to discharge the powers and duties of his office. Thereupon Congress shall decide the issue, assembling within forty eight hours for that purpose if not in session. If the Congress, within twenty one days after receipt of the latter written declaration, or, if Congress is not in session, within twenty one days after Congress is required to assemble, determines by two thirds vote of both Houses that the President is unable to discharge the powers and duties of his office, the Vice President shall continue to discharge the same as Acting President; otherwise, the President shall resume the powers and duties of his office.

**Amendment 26 - Voting Age Set to 18 Years. Ratified 7/1/1971.**

1. The right of citizens of the United States, who are eighteen years of age or older, to vote shall not be denied or abridged by the United States or by any State on account of age.

2. The Congress shall have power to enforce this article by appropriate legislation.

**Amendment 27 - Limiting Congressional Pay Increases. Ratified 5/7/1992.**

No law, varying the compensation for the services of the Senators and Representatives, shall take effect, until an election of Representatives shall have intervened.

**TECH**

**HP LaserJet P4014/4015/4515: Fan Errors**



In the HP Service Manual for the P4014/4015/4515, the information about fans and fan errors is slightly garbled. As we have done for several previous models (8000, 81x0, 9000, CLJ 46x0), we provide a table with correct information on these errors.

ERROR CODE	FAN	LOCATION	PART NUMBER
57.01	FN102	Right side, toward the rear	RK2-1992
57.03	FN103	Right side, toward the front	RK2-1989
57.04	FN101	Left side, toward the rear	RK2-1988
57.05	Duplex Fan	In Duplexer (CB519A or CB519-67901)	N/A. The duplex fan is not available as a separate part. These part numbers are for the entire duplexer.
57.07	FN301	Left side, toward the front	RK2-1991

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