

SERVICE INFORMATION FROM HEWLETT-PACKARD

MARCH-MAY 1981

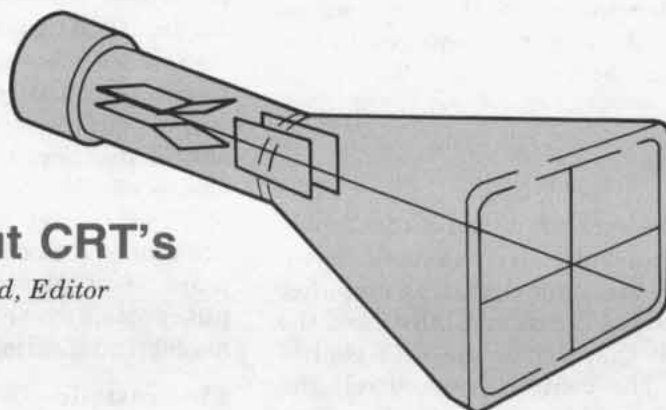
Elements and Terminology

In all X-Y display applications, the purpose is to draw an image on the screen for human interaction. However, before discussing the methods of drawing these images, it is important to discuss display-related terminology and some of the important elements of a picture. Once this common ground is established, the methods of forming a picture can be analyzed in detail.

The important aspects of any picture are resolution, brightness and data density.

Resolution

Two types of resolution, spot size and addressable, are important in discussing a display device. Spot size resolution is simply the diameter of the electron beam spot divided into the screen dimensions. Since the light intensity of a spot is not uniform across its diameter, measurement of spot size is not an exact science.



All About CRT's

By Jim Bechtold, Editor

Introduction

In 1879, William Crookes demonstrated the ability to deflect cathode rays in a vacuum tube with a magnet. Cathode rays had earlier been shown capable of causing phosphorescence on the glass walls of a vacuum tube, but control of the area of phosphorescence was only possible by using shaping masks (solid structures in the tube incapable of producing dynamic deflection). The combination of focusing elements to produce a narrow electron beam (or cathode ray) aimed at a fluorescent target with dynamic electromagnetic-beam deflection became known as a *Crookes tube*. The Crookes tube, later to be commonly known as a *cathode-ray tube* (CRT) or more precisely as an *electron-beam tube*, offered much promise for displaying high-speed variations that could not be demonstrated on mechanical apparatus. By 1897, Carl F. Braun had constructed a "variable current apparatus" by using the Crookes tube, the first forerunner of the modern oscilloscope.

An oscilloscope is an instrument capable of presenting a luminous X-Y graph of any two related electrical parameters. One set of electrical signals is applied to the horizontal deflection (X-axis) system, and the other set of signals to the vertical deflection (Y-axis) system, whereupon the cathode-ray beam traces out the X-Y coordinate graph. The intensity of the beam can be controlled, or modulated, by an electrical signal (sometimes called the *video signal*) applied to the Z-axis system. Such a definition includes not only oscilloscopes and other related electronic instrumentation displays, but standard home television sets as well.

The major difference between an oscilloscope and a television is in the way the picture is formed on the screen of the CRT. In an oscilloscope, external signals control the vertical and horizontal movement of the electron beam. The path the beam traces on the phosphor of the CRT is a picture of those signals. In television, the beam is moved in a fixed pattern both vertically and horizontally; the picture is formed when the beam's intensity is modulated by the external video signal.

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To test spot size resolution, a raster is displayed on the screen and reduced in size until the lines just become indistinguishable. At that point, the size of the raster is measured and divided by the number of lines in the raster to determine the resolution.

Addressable resolution, on the other hand, has nothing to do with spot size, but simply is the incremental accuracy in which the beam can be positioned. The smallest positional movement of the electron beam divided into the CRT dimensions then gives the addressable resolution. Unlike spot resolution, addressable resolution is an exact computable number. It is important to realize that addressable resolution holds no fixed relationship to spot resolution. Addressable resolution can be either greater or less than spot resolution. The relationship of addressable resolution to spot resolution does play a significant role in the perceived "quality" of a display or picture. More on this later.

Brightness

Brightness is simply the light output of the picture being displayed. The relative light output of a displayed picture is significantly different from the maximum light output capability of the CRT as will become apparent later.

Data Density

The amount of data displayed (data density) is simply the area of the CRT screen that is lit versus the entire screen size (or the amount of lit area versus dark area). The lit portion of the screen consists of all the alphanumeric characters and vectors (lines) that comprise the picture being displayed.

Raster

Raster is a predetermined pattern of scanning lines that provides substantially uniform coverage of an area. In other words, the raster is the rectangular pattern of light which appears on the CRT screen when the screen is scanned by the electron beam.

Z-Axis

This refers to that part of the display that controls CRT intensity. It includes the input circuit, an amplifier (called the Z-axis amplifier), and the circuit that drives the CRT control grid. The control grid controls the amount of beam current allowed to fall on the phosphor at the front of the tube which varies the intensity of the picture.

CRT Deflection Fundamentals

Now that some of the basic CRT elements and terminology have been identified, let's discuss beam deflection techniques. There are two methods of deflecting the beam inside the CRT; electromagnetic and electrostatic.

Electromagnetic

Magnetic deflection systems utilize an inductive coil (called a yoke) surrounding the neck of the CRT through which a current signal is passed to generate a magnetic field to deflect the electron beam (see Figure 1). At high frequencies, inductors with few turns are necessary to obtain fast current changes, and larger currents are required to obtain the required field strength. Consequently, above repetition rates of 20 kHz, large power dissipations are required to obtain full-scan displays. Most television sets and computer display terminals use the magnetic deflection scheme.

Electrostatic

Electrostatic deflection systems consist of complex electron gun structures containing two sets of deflection plates; one set for horizontal deflection and one set for vertical deflection (see Figure 2). Electrostatic deflection, involving voltage charging of capacitive plates to deflect the electron beam, is capable of speeds several orders of magnitude higher than electromagnetic for a comparable amplifier cost (but not CRT cost). Since even inexpensive industrial oscilloscopes generally are capable of displaying 500 kHz or

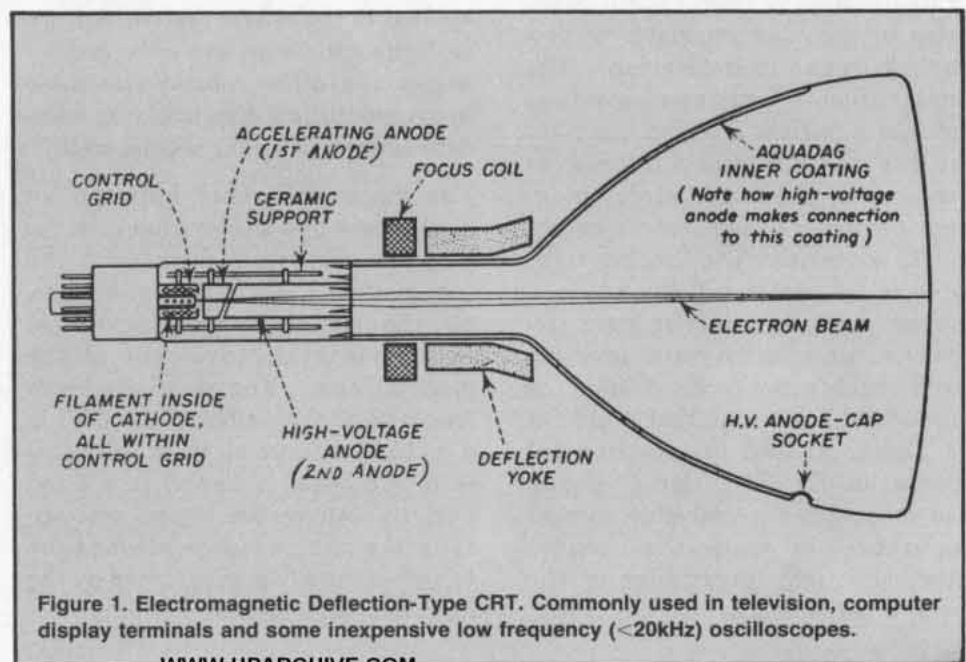


Figure 1. Electromagnetic Deflection-Type CRT. Commonly used in television, computer display terminals and some inexpensive low frequency (<20kHz) oscilloscopes.

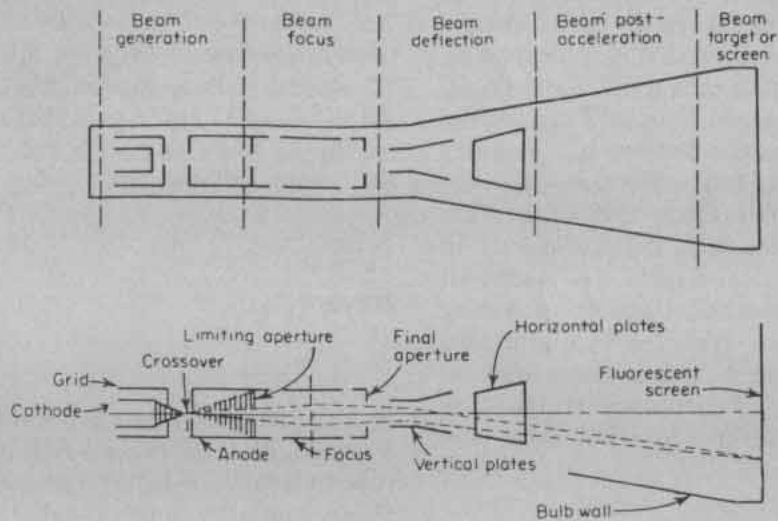


Figure 2. Electrostatic Deflection-Type CRT. Commonly used in X-Y displays and oscilloscopes.

more on the vertical axis (and often on the horizontal axis as well), it is not surprising that most oscilloscopes and X-Y displays use the electrostatic deflection scheme.

Electromagnetic vs Electrostatic

The major differences between the two systems are light output and frequency response. The magnetic system generally offers more light output while the electrostatic system offers high-speed response at low power consumption. In addition, magnetic deflection allows a wider beam-deflection angle than does electrostatic deflection. Moreover, when the full-screen deflection bandwidth desired is less than 20 kHz, the electromagnetic deflection system (amplifier and CRT) has a substantial cost advantage over an electrostatic system. This is one of the reasons television sets, many medical monitors, and some oscilloscopes rely upon CRTs with electromagnetic deflection.

Light Output

Brightness, which is a function of beam current, is governed by the internal construction of the CRT. Given the same spot size, with all other things equal, an electromagnetic CRT will be brighter than a comparable electrostatic CRT. This is mainly due to the fact that the electromagnetic CRT gun structure is very simple, allowing most of the beam current to pass through to the screen. The electrostatic gun has a large number of internal elements as shown in Figure 2. Notice that the front-most element of the focus lens has a relatively small aperture, which strips away 70-90% of the beam current just before the beam enters the deflection plate region. The gun is constructed this way because the beam diameter must be smaller than the distance between the plates as it passes between them.

Deflection Speed

In either type of CRT, it is desirable to deflect the beam at as large a mechanical distance from the screen as feasible. This optimizes deflection sensitivity by providing the greatest deflection distance at the screen per volt, or gauss, of applied deflection field. In the electrostatic CRT, the plates must also be reasonably close together to achieve sufficient deflection field strength with an applied voltage in the range of 300 volts. A greater swing would create significant X and Y amplifier design problems.

Electrostatic displays have faster deflection systems and use less current than electromagnetic displays. This is the result of physics; the load of the deflection plates is only the stray capacitance of a few picofarads. On the other hand, the inductance of the yoke is the load to the driving amplifiers. The higher the inductance (i.e., more turns and stronger magnetic field), the easier it is to deflect the beam; however, higher inductance requires high power. To lower the inductance reduces power requirements but also reduces deflection sensitivity. This then requires reduction in accelerating potentials in the CRT so that the beam can be deflected full screen, which also reduces the light output.

Some further points of comparison follow:

1. *Linearity/Geometry*: In order to achieve a linear deflection in an electromagnetic display, it is necessary to apply an "S"-shaped non-linear voltage function to the deflection coils. To achieve good linearity in electromagnetic displays, complex, nonlinear circuits must be designed which add to the expense and component count. For good geometry (minimum barrel and pincushion distortion) in electromagnetic displays, specially wound coils and additional compensation circuits, or both, are required. Also the positioning of the yoke is very critical.

Electrostatic CRTs, on the other hand, have inherently good linearity. Only a variable dc voltage needs to be applied to an element in the CRT for any minor geometric pattern correction.

2. *Z-Axis Delay*: Since deflection coils act as a delay line, it is necessary to introduce delay into the Z-axis signal path in high-speed electromagnetic displays. This coordinates the blanking and unblanking with the beam position; these delay lines are unnecessary in electrostatic displays.

3. *Resolution*: In either type of CRT, there is a tradeoff of beam diameter vs brightness. Since an electromagnetic CRT passes so much more beam current, a much smaller spot size (higher resolution) can be obtained at the same level of brightness.

4. *Weight*: A high-speed electromagnetic display weighs 2-3 times more than a comparable electrostatic display does. The power transformer is bigger and more heat sinks are required to meet the higher power demands of electromagnetic displays. The mass of the yoke and the increased number of components contribute to the added weight.

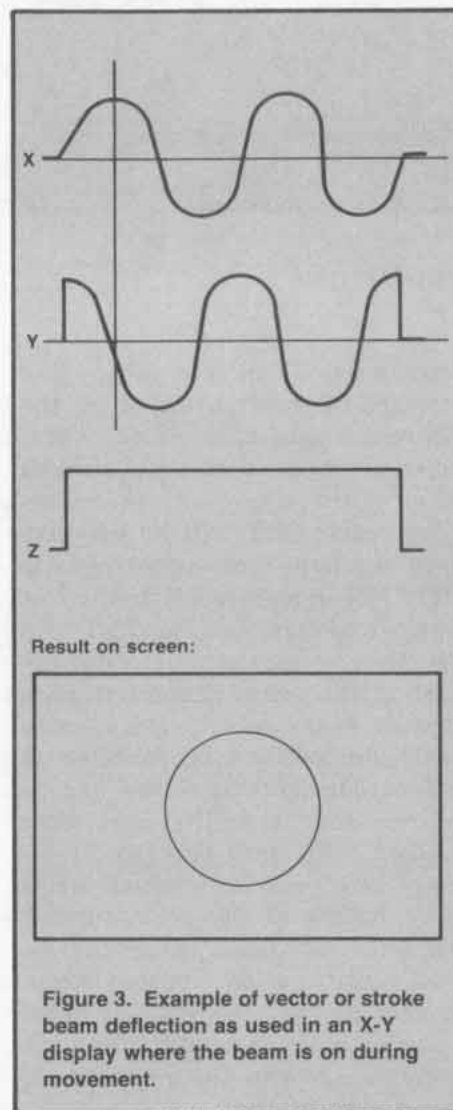
5. *Cooling*: Fast electromagnetic displays require forced-air cooling; electrostatic displays require only convective cooling.

CRT Picture Drawing Fundamentals

In addition to how the beam is deflected inside the tube is the actual method in which the picture is drawn. Again, two basic methods are used; vector scan and raster scan.

Vector

Other common names for vector drawing are "dot writing", "directed beam", and "stroke writing." As the name implies, the beam is successively moved to each new location by signals applied to the X (horizontal) and Y (vertical) inputs. In an oscilloscope, the directed-beam is linearly deflected to follow the signal pattern in the vertical direction while often using a constant deflection rate in the horizontal direction to represent time. If the beam is left on during the writing cycle (as in a standard oscilloscope), the picture will be comprised of curves or straight-line segments on the CRT face (see Figure 3).



If the beam is blanked (turned off) during movement and turned on at rest, the picture will be comprised of a series of dots on the CRT face (see Figure 4a). This type of "dot writing" lends itself well to the CRTs used in spectrum analyzers, air traffic control monitors, and other displays where annotation is displayed on the screen along with the main picture (see Figure 4b).

Raster

In a raster system, the beam follows a fixed path covering the face of the tube in a series of interlaced parallel lines (usually horizontal), with blanked (turned off) retrace lines (see Figure 5). In a raster system there are two methods of modulating the beam intensity; analog and digital.

Analog modulation is used in television. The principle of operation involves varying the intensity of the beam as it moves across the screen in accordance with the picture impulses of the video signals applied to the grid of the CRT.

The picture is traced line-by-line. The first odd-numbered line of the picture is traced by one sweep from left to right. When the beam reaches the right side of the screen, the horizontal blanking signal biases the tube beyond cut-off and the beam is thus extinguished (blanked out). The beam remains blanked out long enough for it to move rapidly over to the left-hand side of the screen where it is in another position to start the trace of the second odd-numbered line of the picture. The horizontal blanking signal is now withdrawn and the beam moves across the screen as before, tracing another odd-numbered line of the picture.

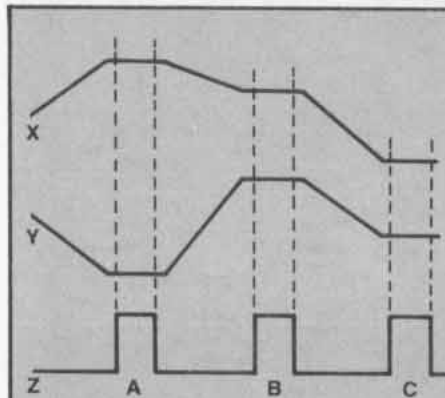
As this process is repeated again and again, the vertical sweep signal is applied to the vertical deflection system of the CRT which causes the beam to move gradually toward the bottom of the screen. Due to the downward pull of the slowly moving vertical sweep, each horizontal scanning line will be slightly below the preceding line.

When the beam reaches the bottom of the screen, the vertical blanking signal biases the CRT beyond cut-off and the beam is blanked out for vertical retrace. The beam then moves rapidly (flyback) to the upper left-hand corner of the screen where it is in a position to start the traces of all the even-numbered lines to fill in the picture.

In the case of television, the composite picture is comprised of 525 lines scanned in an interlaced pattern at the rate of 1/30th of a second. That is, the odd-line picture (first field) is scanned in the first 1/60th of a second, and the even-line picture (second field) is scanned in the second 1/60th of a second. This means that the horizontal lines are scanned at the rate of 525 times 30 or 15,750 lines per second (color TV is 15,734).

All of this scanning and modulation results in a picture of gray shades where the beam intensity ranges from full on to full off. In other words, when the video signal increases the beam intensity to full on, the phosphor on the CRT glows brightly; and when the video cuts off the beam intensity, the phosphor does not glow. Everything in between is the gray range, which forms the picture.

The other method of drawing the picture in a raster format is by using a digital signal to modulate the beam as it sweeps across the face of the CRT. The interlaced scanning procedure is the same. In this



Result on Screen:

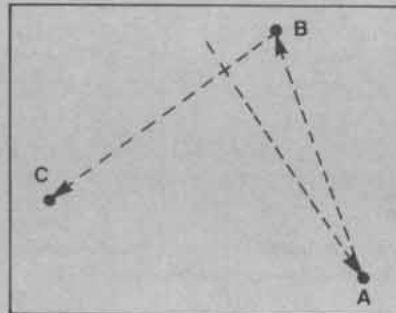


Figure 4a. Example of dot writing (vector deflection) where the beam is turned off during movement.

method, the face of the CRT is partitioned into rows and columns of dots which are called "pixels." Refer to Figure 6. Pixels are defined as the smallest location on screen where the beam can be modulated on or off. The picture is created from line segments and dots produced by turning the beam intensity on and off at appropriate times. Special effects can be created when the beam intensity is modulated at points between full on and off.

For a low-cost alphanumeric display, the raster scan method offers several advantages over the directed beam. First, it doesn't require accurate, high-speed, and therefore expensive digital-to-analog converters. Instead, it uses counters on both axes

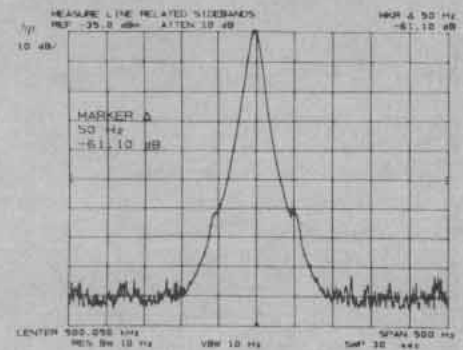


Figure 4b. Application example of dot writing (electrostatic vector deflection). This type of display uses A-D converters and a large interactive memory.

to locate dots and characters. Second, the deflection circuitry need not have wideband, essentially identical channels; each axis can be optimized for its particular operating rate. Similarity with television techniques allows the use of low-cost television components in the deflection and high-voltage circuits. Finally, the raster display can minimize the power consumption of the monitor by means of an energy-conserving flyback-type horizontal deflection circuit.

However, "clean" graphics are difficult to display in a raster system. This is most obvious when lines are drawn which are close to, but not exactly horizontal; they will be displayed broken up into steps as shown in Figure 7.

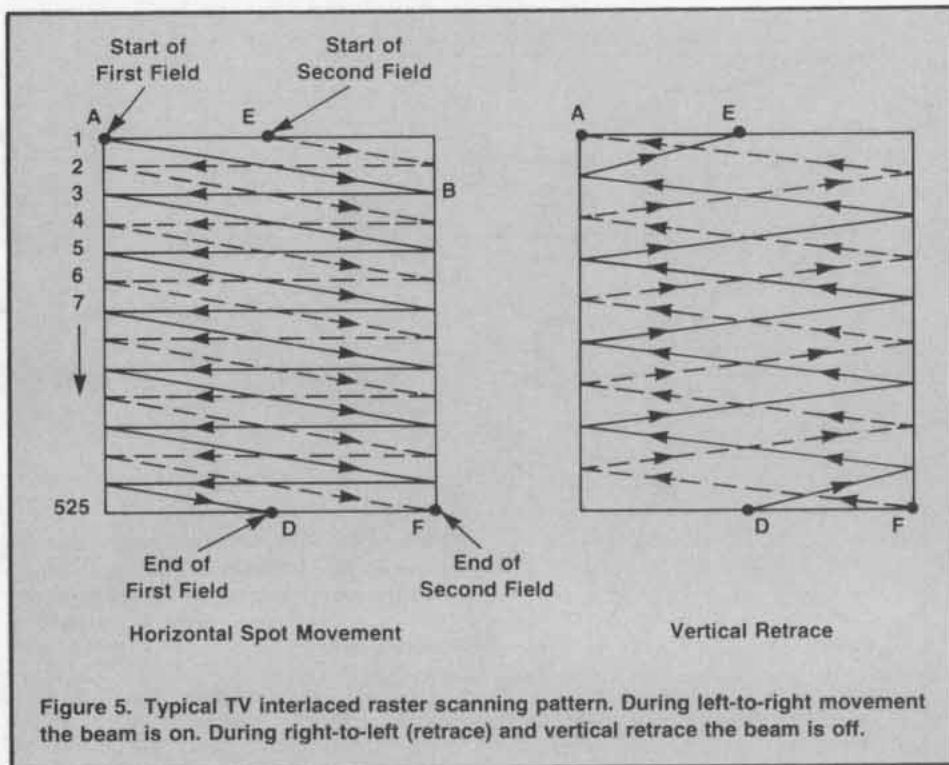


Figure 5. Typical TV interlaced raster scanning pattern. During left-to-right movement the beam is on. During right-to-left (retrace) and vertical retrace the beam is off.

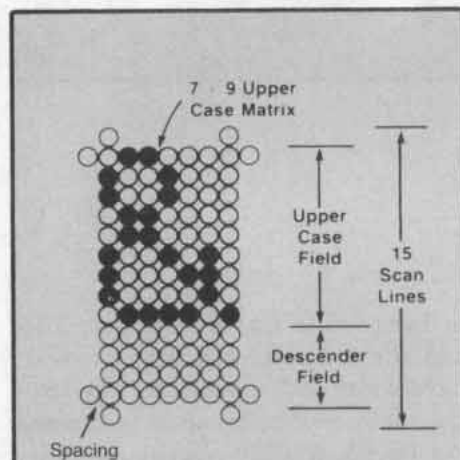


Figure 6. Example of digitally modulated raster scan method used to generate alphanumeric characters. This example shows a basic 7 pixel wide by 9 pixel high character cell as used in an HP CRT display terminal. The four additional scan lines beneath the 7×9 matrix are used for descender areas of lower case letters and underlining. one pixel is used on either side for character-to-character spacing. In this particular example the display screen has a low aspect ratio of 5×10 inches, for a capacity of 1920 character cells partitioned into 24 rows of 80 characters each. That equals 259,200 pixels (720 horizontal by 360 vertical).

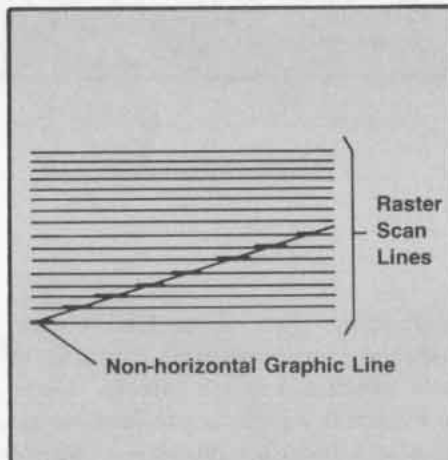


Figure 7. Exaggerated example of a non-horizontal graphics line drawn on a raster-type display.

The Final Criterion — Resolution

In high resolution line drawing situations, continuous lines have significant merit. It should be pointed out that vector systems have continuous lines at all addressable resolutions. Only the starting and stopping point accuracy of the vectors is sacrificed at lower resolutions. To achieve continuous lines in a raster system can place significant requirements upon it. Since, in a raster system, vectors are comprised of a series of dots or pixels, in order to achieve the effect of a continuous line, the dots must be spaced so close as to merge. In fact, they need to overlap by approximately two-thirds to three-quarters of the spot diameter. This means that the addressable resolution (number of scan lines) should be three or four times greater than the spot resolution of the CRT. Therefore, a 1000 line spot resolution CRT requires 3 or 4 thousand scan lines to achieve the same quality as a displayed line in a vector system. Of course, this has extremely adverse effects on light output, deflection systems, power, and cost. Therefore, in high resolution line drawing applications, the "quality" of the continuous line may also become an issue.

Another example of resolution restriction can occur when trying to use an alphanumeric raster-type computer terminal to display a voltage vs time phenomenon. Remember that this type of CRT is the digital raster type with a fixed scan rate that modulates pixels on and off with a certain portion of time set aside for retrace.

If the event you are trying to capture is nonrecurring, it may occur during retrace, or if it is quick enough, in-between pixels. In either case, the CRT will not show the phenomenon. Remember that our example shown in Figure 6 has only 720 pixels of visual horizontal resolution.

For Customers Who Repair Their Own

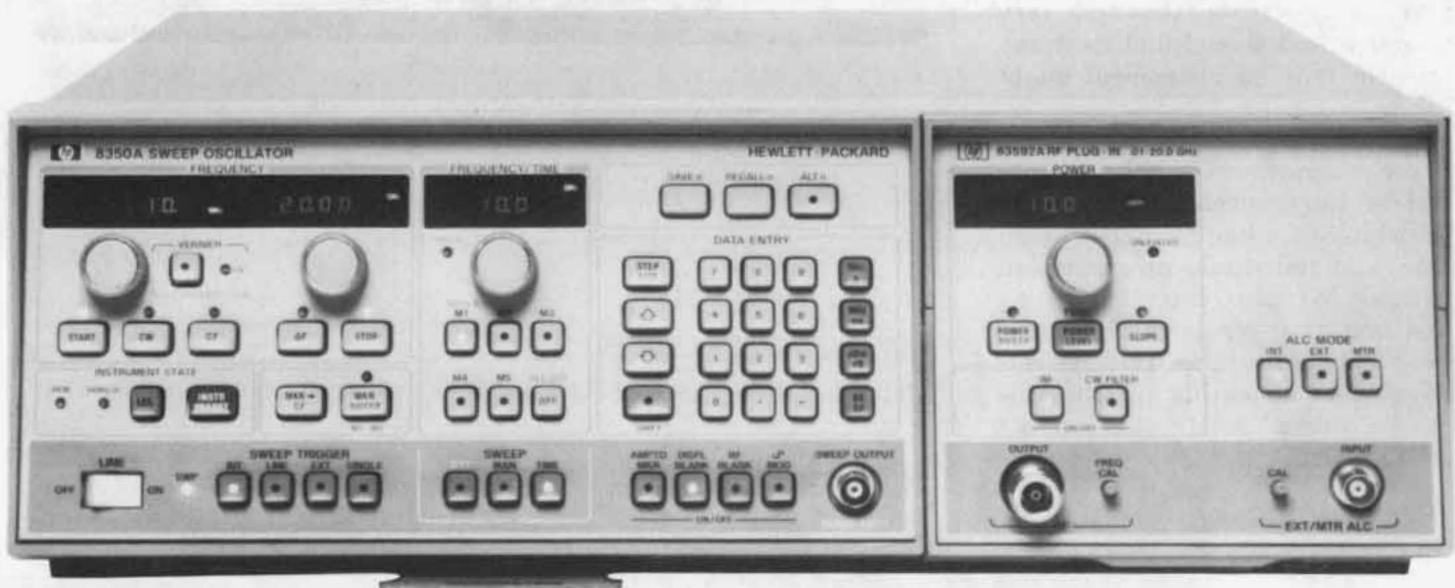
New 8350A Sweep Oscillator Service Accessory Kit

A new service accessory kit, HP Part No. 08350-60020, has been created for HP customers with their own repair facilities. This kit contains most of the unique parts necessary to perform routine service and calibration on the 8350A Sweep Oscillator.

Contents of the kit include:

- 2 ea extender boards
- 2 ea extender cables
- 1 ea 3/32 hex drive
- 1 ea 16-pin IC clip
- 1 ea 20-pin IC clip

You can order the kit from your local HP office.



New Test Procedures

8654B Signal Generator

A new service note (8654B-1) has been issued that provides improved performance tests and adjustments for the 8654B Signal Generator.

The 30-page performance test replaces the corresponding procedures

contained in either the 0854-90012 or 0854-90025 Operating and Service Manuals.

The new procedures require less test equipment, are faster and simpler, and are more thorough and accurate than the procedures in the manuals. Test set-ups, recommended test equipment and performance test records are all provided.

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8662A Verification Tape Available

A tape cartridge containing 11 programs which check the operation of the 8662A Synthesized Signal Generator via HP-IB is now available. These programs run on the 9825 desktop computer and use an 8568A or 8566A Spectrum Analyzer as the measuring instrument. These programs test all functions of the 8622A except modulation distortion. Although the tests are not complete performance tests, they are very thorough and should find most any problem that an instrument might have.

These programs are very easy to use and can run unattended. Results can be printed if a line printer is available, and individual programs can be made to repeat. Incoming inspection and after-repair check-out are two ideal applications. The tape cartridge and operating instructions can be ordered as HP part number 08662-60310.



Integrated Circuits

Replacement Part Cross Reference

When selecting replacement parts for your HP products, you may notice that many manuals list only an HP part number for the part, even though it appears that this part is manufactured by one of the large semiconductor manufacturers. Service personnel often ask why only HP part numbers are listed.

It is recommended that HP replacement parts be used to ensure that the original performance of the product will be obtained. While some parts used in HP instruments are identical to that which can be purchased at a local electronics distributor, many times parts will be selected for certain characteristics, such as gain, bandwidth, capaci-

tance, etc. There may also be slight mechanical differences, such as the shaping or length of leads. In some cases special quality checks are employed to ensure that high reliability parts are used at the factory and at HP field offices.

Therefore, we suggest obtaining replacement parts from HP to maintain the quality that you have paid for in your instrument. There may be situations however where HP replacement parts are not in stock and substituting parts will allow you to return the product to service immediately. In these cases it may be worthwhile to see if a substitute part will work in the circuit. Perhaps an HP part could be ordered and installed at some later date.

To help you in these situations, here's a cross-reference of HP integrated circuit part numbers to manufacturers "generic type" part numbers (whom in most cases is the originator of the part). Even though the cross-reference only lists one manufacturer, there may actually be several approved sources for an HP part. While every attempt was made to ensure the accuracy of the list, it is advisable to compare the description of the device being replaced with the description of the substituted part. For example, if the service manual describes the device being replaced as a "dual J-K flip-flop", check this against the description of the replacement part.

Manufacturers Code Number Cross Reference

Number	Manufacturer	Location	Number	Manufacturer	Location
00039	Nippon Electric Co.	Tokyo, JP	03334	Amperex Elek. Corp. Semicon. & MC Div.	Slatersville, RI
00350	Exar Integrated Systems Inc.	Sunnyvale, CA	03406	National Semiconductor Corp.	Santa Clara, CA
00575	Western Digital Corp.	Newport Beach, CA	03545	Teledyne Philbrick Nexus	Dedham, MA
01590	Plessey Semiconductors	Santa Ana, CA	03658	Optimax Inc.	Colmar, PA
01698	Texas Instr. Inc. Semicond. Cmpnt. Div.	Dallas, TX	03677	American Micro Systems Inc.	Santa Clara, CA
01795	Synertek	Santa Clara, CA	03714	Intersil Inc.	Cupertino, CA
01876	HP Div. 02 Santa Clara IC's 86	Santa Clara, CA	03755	Hybrid Systems Corp.	Burlington, MA
01921	RCA Corp. Solid State Div.	Somerville, NJ	03758	Electronic Arrays, Inc.	Mountain View, CA
01973	GE Co. Semiconductor Prod. Dept.	Auburn, NY	03780	Intech Inc.	Santa Clara, CA
01991	Transitron Electronic Corp.	Wakefield, MA	03794	Advanced Micro Devices Inc.	Sunnyvale, CA
02023	Illinois Tool Works Inc. Licon Div.	Chicago, IL	03795	Motorola Inc.	Franklin Park, IL
02037	Motorola Semiconductor Products	Phoenix, AZ	03799	Harris Semicon. Div. Harris-Intertype	Melbourne, FL
02180	Precision Monolithics Inc.	Santa Clara, CA	03811	Intel Corp.	Mountain View, CA
02237	Fairchild Semiconductor Div.	Mountain View, CA	04078	Mostek Corp.	Carrollton, TX
02290	Raytheon Co. Semiconductor Div. HQ	Mountain View, CA	04092	Monolithic Memories Inc.	Sunnyvale, CA
02569	Crystalonics, Div. Teledyne	Cambridge, MA	04183	Nitron Div. McDonnell Douglas Corp.	Cupertino, CA
02598	Unitrode Corp.	Watertown, MA	04200	Sprague Electric Co.	North Adams, MA
02634	Sprague Elect. Co. Semiconductor Div.	Concord, NH	05436	Burr Brown Co.	Tucson, AZ
02713	General Instr. Corp. Semicon. Prod. GP	Hicksville, NY	06338	SGS Ates	Milan, IT
02763	Teledyne Semiconductor	Mountain View, CA	06545	Lambda Electronics Corp.	Melville, NY
02838	Dynamic Measurements Corp.	Winchester, MA	06563	Siemens Corp. Components Group	Scottsdale, AZ
02882	Zeltex Inc. Sub. of Redcor Corp.	Concord, CA	06852	Data Delay Devices	Clifton, NJ
02883	Siliconix	Santa Clara, CA	07653	Zilog Inc.	Cupertino, CA
02910	Signetics Corp.	Sunnyvale, CA	07810	Texas Instruments France	Nice, FR
03183	HP Div. 22 Data Systems	Cupertino, CA	07915	Hitek Microsystems Inc.	San Diego, CA
03285	Analog Devices Inc.	Norwood, MA			

HP P/N	Mfr.	Desc.	HP P/N	Mfr.	Desc.	HP P/N	Mfr.	Desc.
0950-0565	03795	K1100A-10.0MHZ	1815-0040	02882	Z0440	1815-0067	03795	K1115A-10MHZ
0950-0567	03795	K1100A-5.216MHZ	1815-0041	03406	LH0042CH	1815-0082	02598	PIC646
0950-0569	03795	K1100A-22.8571MHZ	1815-0043	03795	K1091A-10.485760MHZ	1815-0083	02598	PIC601
0950-0570	03795	K1114A-24.0MHZ	1815-0045	03795	K1051A-E.0MHZ	1815-0084	02598	PIC611
0950-0572	03795	K1100A-20.275MHZ	1815-0046	03795	K1100A-15MHZ	1815-0089	03795	K1100A-27MHZ
0950-0581	03795	K1113A-1.0MHZ	1815-0047	03795	K1091A-10.0MHZ	1815-0092	05436	DAC80-CC0-V
0950-0631	03285	DAC160M/C-H	1815-0048	05285	751N	1815-0093	02237	UA78H12SC
0950-0632	03285	DAC120S/C-H	1815-0049	02763	2740CE	1815-0098	05436	ADC80AG-12
1813-0013	03285	40K	1815-0052	03795	K1091A-7.50MHZ	1815-0100	02237	UA78H05SC
1813-0016	05436	3112/12C	1815-0053	03795	K1091A-6.9120MHZ	1815-0105	05436	DAC80-CRI-V
1813-0034	03714	1H5010CPD	1815-0054	03406	AH0154D	1815-0109	02598	PIC625
1813-0036	03755	DAC372-12-HCD	1815-0057	03406	LH0024CH	1815-0110	02598	PIC626
1813-0039	02882	Z0441	1815-0058	03406	LH0021CK	1815-0114	02598	PIC645
			1815-0061	03795	K1100A-8.389MHZ	1815-0115	02598	PIC600
			1815-0062	03795	K1100A-10.486MHZ	1815-0116	03795	K1100A-9.8504MHZ

HP P/N	Mfr.	Desc.	1816-1339	03406	DM867ACAR/N	1818-0762	01698	TMS2532JL
			1816-1358	01698	TBP145A10N	1818-0772	03811	D2115A
			1816-1371	04092	6309-1N	1818-0794	03811	C2716
1813-0117	03795	K1100A-1.792MHZ	1816-1382	03799	HMS-7621-5	1818-0849	02037	MCM2147C-70
1813-0119	03795	K1100A-40MHZ	1816-1388	01698	TBP18522N	1818-0850	03811	D2732
1813-0120	06852	DDU-4-5100	1816-1390	02037	MCN10147L	1818-0851	01698	TMS2516-35JL
1813-0121	03795	K1114A-10.1376MHZ	1816-1398	06344	MB7072N	1818-0895	03811	P2142
1813-0123	02237	UA78HGKC	1816-1406	03794	AM27527DC	1818-0912	02037	MCM68A708L PROGRAMMED
1813-0124	02237	UA78H15KC	1816-1415	06344	MB7042N	1818-0913	03794	AM912480C
1813-0127	02237	UA79HGKC	1816-1416	03799	HMI-7611-5	1818-0955	03799	HM3-6514-9
1813-0128	03795	K1100A	1816-1418	02910	N82S129F	1818-0977	03811	C8755A
1813-0129	03795	SP6235H	1816-1421	01698	SN74LS47AN	1818-0989	03799	HM3-6514-5
1813-0131	03795	K1135A	1816-1429	03799	HMI-7643A-5	1818-0990	03799	HMI-6514-9
1813-0133	02838	7162	1816-1430	02037	MCN10145L	1818-1009	03714	IM65K61-CJN
1813-0134	03795	K1100A-1.0MHZ	1816-1433	03714	TMS623CPE	1818-1012	02237	47258PL
1813-0135	03795	K1100A-18.5MHZ	1816-1434	02037	MCN10146L	1818-1026	03811	D2125AL
1813-0138	02037	MHW592	1816-1435	02037	MCN10143L	1818-1027	03811	D2147H-3
1813-0139	03795	K1100A-10.0MHZ	1816-1447	02037	MCN10139L	1818-1062	03811	D2758
1813-0140	05436	SDP857KG	1816-1451	02290	29631ADC	1818-1090	03811	P2141L-3
1813-0142	03285	AD5228D	1816-1456	02037	MCN10149L	1818-1114	04078	MK4118P-3
1813-0144	03795	K1115A-2.5MHZ	1816-1458	02910	N82S19T	1818-1153	03811	P2142L
1813-0146	03795	K1144A-22.016MHZ	1816-1459	06344	HMI0470	1818-1162	04078	MK4118P-2
1813-0147	04114	DAC-HA120C	1816-1460	03406	DM10415AJ	1818-1177	04078	MK4118N-2
1813-0148	01417	HS-400-600KHZ	1816-1461	02910	10149F	1818-1178	04078	MK4118N-3
1813-0149	03795	K1148A-19.6608MHZ	1816-1462	06344	MBN10422H	1818-1212	03811	D2148H-3
1813-0150	03714	ICM72091PA	1816-1467	03799	HMS-7643-5	1818-1213	04078	MK4118P-4
1813-0153	03795	K1135H	1816-1468	01698	TBP185030J	1818-1214	04078	MK4118N-1
1813-0154	03795	K1100A-29.7984MHZ	1816-1469	02237	F1001420C	1818-1215	03811	D2141-2
1813-0156	03795	K1100A-20.0MHZ	1816-1475	02910	N82S137AN	1818-1238	03811	P2114AL-3
1813-0160	03406	DH0034CD	1816-1481	03799	HMI-7649-5	1818-1254	03811	D2732-6
1813-0161	03444	CO-233ME-40.0MHZ	1816-1482	02910	N82S131F	1818-1300	00039	UPD02114L-3
1813-0162	03444	CO-233ME-80.0MHZ	1816-1492	06344	MBN10474	1818-1330	00039	UPD0444C-1
1813-0163	03444	CO-233ME-8.0MHZ	1816-1495	03794	AM27507APC	1818-1334	04078	MK4332P-3
1813-0164	03795	K1100A-2.0MHZ	1818-0036	02910	CG725Y MASKED	1818-1335	08831	35392CP
1813-0166	03795	K1145A-22.016MHZ	1818-0061	03406	MMS241ABLN	1818-1336	03406	MMS204D
1813-0167	01417	HS-200-1.8432MHZ	1818-0093	02237	33410C	1818-1346	00039	UPD0444/6514
1813-0168	08661	7516	1818-0094	00575	PR1472H-01	1818-1350	06354	TC5514P
1813-0170	01869	PE-21217	1818-0095	00575	P1482B-01	1818-1351	03714	IM659A-1JUG
1813-0189	07915	HY-5002	1818-0102	01698	TMS41030JL	1818-1370	03799	HMI-6514-5
1813-0193	07397	TTLDM-200	1818-0103	01698	TMS4050JL	1818-1372	04078	MK4801P-90
1813-0197	07397	TTLDM-100	1818-0106	03406	MMS261N	1818-1396	00039	UP416C-2 (SELECTED)
1813-0199	07915	HY-5003	1818-0107	03714	IM7512CPE	1818-1397	00039	UP416C-3 (SELECTED)
1813-0211	02037	MWA110	1818-0108	02037	6605L-1	1818-1398	01698	TMS4044NL-45
1813-0212	02037	MWA120	1818-0114	04078	MK4096-3	1818-1424	03811	D2118-4 (SELECTED)
1813-0213	02037	MWA130	1818-0115	03677	P1103A	1818-1425	03811	D2118-7 (SELECTED)
1813-0214	02037	MWA210	1818-0128	03811	P2107B	1818-1467	00039	UP416C-1 (SELECTED)
1813-0215	02037	MWA220	1818-0134	03406	MMI101A/ALV	1818-1468	03811	D2148HL
1813-0216	02037	MWA230	1818-0135	02037	MCN68A10L	1818-1520	03714	IM6653JUG
1813-0217	02037	MWA310	1818-0140	01795	5YP2112A-4	1818-1559	06347	HM866A-3 (SELECTED)
1813-0218	02037	MWA320	1818-0146	01698	TMS4050JL SELECTO	1818-1581	01698	TMS2532JDL-35
1813-0219	02037	MWA330	1818-0147	01698	TMS4050JL	1818-1583	06354	TC5504P-1
1813-0229	07397	TTLDM-40	1818-0155	02910	2606H	1818-1586	03811	D2147H-1
1816-0015	03799	HPR0M1-1024-5H	1818-0165	01698	TMS4060JL SELECTED	1818-1596	06347	HM6147P-3
1816-0016	02910	N82S125F	1818-0181	01698	TMS4050-1JL SELECTO	1818-1611	06347	HM6116P-3
1816-0041	04092	6300-1J PROGRAMMED	1818-0197	03794	AM9111B0C	1818-1614	04078	MK4801AN-90
1816-0053	03714	IMS6000CPE PROGRAMMED	1818-0198	03406	MM2102AN-4L	1818-1616	08831	L8114-ACJ
1816-0129	04092	6300-1J	1818-0199	03794	AM9112APC	1818-1628	06347	HM4334P-3
1816-0217	03714	IMS6100CPE	1818-0237	02713	RO-3-2513	1818-1633	03811	D2732A-3
1816-0348	04092	6330-1J	1818-0238	03794	AM9102APC	1818-1638	03811	P2114AL-2
1816-0355	04078	MK2302P	1818-0247	01698	TMS4060-2JL	1818-1643	04078	MK4802-3N
1816-0409	03799	HPR0M-8256-5D	1818-0250	03811	D2708	1818-1648	03811	D2732A
1816-0439	04092	6340-1J	1818-0254	02910	2516N	1818-1660	03811	D2125H-2
1816-0598	01698	SN74S200M	1818-0277	03794	AM2813ADC	1818-1662	04078	MK4801AN-70
1816-0605	02910	N82S115F	1818-0279	02237	33410DC	1818-1663	03811	D2125H-1
1816-0640	01698	SN74S189J	1818-0289	03794	AM1707AHD	1818-1667	06347	HM6147P
1816-0710	02910	N82S131F	1818-0294	03794	AM91112CPC	1818-1717	06344	M88164C (SELECTED)
1816-0723	02237	93L415PC	1818-0313	03794	AM91130DC	1818-1718	04078	MK4802N-1
1816-0724	01698	SN74S189N	1818-0317	01698	TMS4027-15JL SELECTO	1818-1721	03811	D2732A
1816-0728	02910	N82S091	1818-0318	03794	C2101-1	1818-1722	03811	D2764
1816-0782	02910	N82S129F	1818-0319	03811	P5101L-3	1820-0001	01973	4JX19A559
1816-0787	01698	SN74S289N	1818-0320	03794	P2101-2	1820-0006	01973	4JX19A519
1816-0860	02037	MCM5004AL	1818-0322	03794	AM91112APC	1820-0010	01973	4JX19A581
1816-0868	03811	P3604L-6 MASKED	1818-0327	04078	MK4102P-6	1820-0013	02037	MC352G
1816-0913	03794	AM31101PC	1818-0328	02037	MCN6810AL	1820-0044	01973	RA1A
1816-0914	02237	93A15DC	1818-0332	03811	D2115AL	1820-0046	01921	CA3005
1816-0915	02910	N82S23F	1818-0334	01698	TMS4027-20JL SELECTO	1820-0047	01921	CA3010
1816-0916	02910	N82S123F	1818-0335	03794	AM91028PC	1820-0050	02037	MS15316
1816-0917	02910	N82S126F	1818-0340	01698	TMS4116-25JL SELECTO	1820-0051	02237	702HC
1816-0918	02910	N82S130F	1818-0341	00039	UPD4160-2	1820-0052	02237	923HC
1816-0919	03811	D3624A	1818-0342	03811	P2101A-4	1820-0054	01698	SN7400N
1816-0928	02910	N82S140F	1818-0343	03794	AM9101DPC	1820-0055	01698	SN7490AN
1816-0929	02910	N82S141F	1818-0348	02237	2102LHPC	1820-0056	01698	SN7492AN
1816-0930	02910	N82S136F	1818-0360	03794	AM9131COC	1820-0058	01991	TD4 2709V
1816-0931	02910	N82S137F	1818-0381	01795	5YP2111A-2	1820-0063	01698	SN7451N
1816-0934	02237	9403PC	1818-0389	03794	AM9130ECC	1820-0065	01698	SN7470N
1816-0987	03799	HMI-7644A-5	1818-0390	03714	IM650AIDE	1820-0067	02910	SP631N
1816-0993	02237	934480C	1818-0422	02237	33511DC	1820-0068	01698	SN7410N
1816-0994	04092	6335J	1818-0425	03811	P2101A-2	1820-0069	01698	SN7420N
1816-1008	01698	TBP18542J	1818-0438	01698	TMS2114-45NL	1820-0070	01698	SN7430N
1816-1015	02237	93415PC	1818-0439	03799	HMI-6561B-9	1820-0071	01698	SN7440N
1816-1032	02910	N82S123N	1818-0440	03406	MMS269N	1820-0072	01698	SN7450N
1816-1053	02037	MCN10144L	1818-0443	00039	UPD2114LC-1	1820-0074	01698	SN7454N
1816-1054	02910	N82S185F	1818-0449	03811	P4002-1	1820-0075	01698	SN7473N
1816-1055	01698	TBP18542N	1818-0491	01698	TMS2708BJL	1820-0076	01698	SN7475N
1816-1056	03799	HPR0M1-0512-5	1818-0492	03811	P2114A-4	1820-0077	01698	SN7474N
1816-1089	03406	DM74LS189N	1818-0497	03799	HM-6551-90IP	1820-0078	02910	SP620N
1816-1137	01698	TBP14510N	1818-0498	01698	TMS2516JL	1820-0081	02237	911HC
1816-1141	01698	SN74188AN	1818-0508	03406	MMS280J-5	1820-0083	01698	SN7510L
1816-1142	02910	N82S141F	1818-0509	01698	TMS4116-15JL			

HP P/N	Mfr.	Desc.	HP P/N	Mfr.	Desc.	HP P/N	Mfr.	Desc.
1820-0111	02037	MC8301P	1820-0346	01698	SN15833N	1820-0517	02237	98650C
1820-0113	01991	TOA3709V	1820-0348	01698	SN15844N	1820-0518	02237	98530C
1820-0121	02910	N8T90N	1820-0349	01698	SN15849N	1820-0519	02237	98220C
1820-0122	02037	MC853P	1820-0350	01698	SN15861N	1820-0520	02237	98060C
1820-0123	03406	LM300H	1820-0351	01698	SN15863N	1820-0533	02037	MC838P
1820-0125	02237	711HC	1820-0352	01921	CA3018	1820-0535	01698	SN754518P
1820-0127	02237	90020C	1820-0357	02237	9304PC	1820-0536	02910	N8284N
1820-0128	01698	SN15837N	1820-0361	01698	SN4935N	1820-0537	01698	SN7413N
1820-0129	02237	90030C	1820-0362	01698	SN7480N	1820-0538	01698	SN7423N
1820-0130	02237	90040C	1820-0363	01698	SN7482N	1820-0539	01698	SN7437N
1820-0131	02237	90090C	1820-0364	01698	SN7491AN	1820-0542	02910	N8234N
1820-0132	02237	90160C	1820-0365	01698	SN7481AN	1820-0543	02910	N8233N
1820-0134	02237	9300PC	1820-0366	01698	SN7494N	1820-0544	01698	SN74H103N
1820-0137	01921	CA3028B	1820-0367	01698	SN7495AN	1820-0545	01698	SN74191N
1820-0138	03545	S52	1820-0368	01698	SN7496N	1820-0546	01698	SN74192N
1820-0140	02037	MC3026P	1820-0370	01698	SN74H00N	1820-0567	02037	MC4024P
1820-0141	02037	MC3001P	1820-0371	01698	SN74H10N	1820-0568	01698	SN75325N
1820-0142	02037	MC1004P	1820-0372	01698	SN74H11N	1820-0569	02910	N8243N
1820-0143	02037	MC1027P	1820-0373	01698	SN74H20N	1820-0574	01698	SN74173N
1820-0144	02037	MC1018P	1820-0374	01698	SN74H21N	1820-0575	02910	N8235N
1820-0145	02037	MC1019P	1820-0375	01698	SN74H30N	1820-0577	01698	SN7416N
1820-0146	02037	MC1017P	1820-0376	01698	SN74H40N	1820-0578	02037	MC1024P
1820-0147	02037	MC1007P	1820-0377	01698	SN74H50N	1820-0579	01698	SN74123N
1820-0157	02037	MC1023P	1820-0378	01698	SN74H51N	1820-0581	02037	MC1032P
1820-0158	03406	LM302H	1820-0379	01698	SN74H52N	1820-0582	02037	MC1011P
1820-0160	02037	MC1431P	1820-0390	01698	SN74H53N	1820-0583	01698	SN74L00N
1820-0162	03406	LM709H	1820-0381	01698	SN74H54N	1820-0584	01698	SN74L02N
1820-0174	01698	SN7404N	1820-0382	01698	SN74H55N	1820-0585	01698	SN74L03N
1820-0175	01698	SN7405N	1820-0383	01698	SN74H60N	1820-0586	01698	SN74L04N
1820-0180	02037	MC1015P	1820-0384	01698	SN74H61N	1820-0587	01698	SN74L10N
1820-0181	02037	MC1433L	1820-0385	01698	SN74H62N	1820-0588	01698	SN74L20N
1820-0186	02237	98560C	1820-0386	01698	SN74H71N	1820-0589	01698	SN74L30N
1820-0187	02237	98520C	1820-0387	01698	SN74H72N	1820-0590	01698	SN74L51N
1820-0192	01921	CA 3001	1820-0391	01698	SN74H73N	1820-0591	01698	SN74L54N
1820-0195	02910	N8T80N	1820-0396	01698	TL702CN	1820-0592	01698	SN74L55N
1820-0196	02037	MC1723CG	1820-0397	01698	UA709CN	1820-0593	03406	DM74L71N
1820-0197	02237	709AHM	1820-0398	01698	SN72710N	1820-0594	03406	DM74L72N
1820-0209	02037	MC1030P	1820-0400	02910	N8281N	1820-0595	03406	DM74L73N
1820-0201	02037	MC1439G	1820-0408	02237	727HL	1820-0596	03406	DM74L74N
1820-0202	02910	SP322B	1820-0410	03406	HM507	1820-0597	03406	DM74L78N
1820-0203	01921	CA741CT	1820-0411	02037	MCR17P	1820-0598	01698	SN74L86N
1820-0204	02037	MC3006P	1820-0417	01921	CA3002	1820-0599	03406	DM74L95N
1820-0205	02037	MC3003P	1820-0418	02037	MC1812P	1820-0600	03406	DM74L90N
1820-0207	02037	MC8601P	1820-0419	02910	S8280N	1820-0601	03406	DM74L93N
1820-0208	02910	N8826N	1820-0424	01698	SN74H04N	1820-0602	03406	DM74L164N
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1820-0212	02037	MC1029P	1820-0427	02037	MC1496G	1820-0604	02037	MC3025P
1820-0213	02037	MC1014P	1820-0429	02910	LM309H	1820-0605	01698	SN74H01N
1820-0214	01698	SN7442AN	1820-0430	02237	LM309K	1820-0606	01698	SN741A1N
1820-0218	03285	106A	1820-0433	01921	CA3023	1820-0607	02037	MC4012P
1820-0223	01921	CA301AT	1820-0435	01698	SN74L80N	1820-0608	02037	MC4006P
1820-0224	03406	LH0002CH	1820-0437	02037	MC4015P	1820-0609	02037	MC3061P
1820-0231	02237	9316PC	1820-0439	02237	723PC	1820-0610	02037	MC8309P
1820-0233	01698	SN74193N	1820-0440	02037	MC1016P	1820-0611	01698	SN741A2N
1820-0235	02037	MC1031P	1820-0441	02037	MC1801P	1820-0612	02237	93030C
1820-0238	02037	MC1810P	1820-0443	01698	SN74L93N	1820-0613	01698	SN74H05N
1820-0239	02037	MC3002P	1820-0444	02037	MC1025P	1820-0614	02237	93L08PC
1820-0240	01921	CA3026	1820-0445	01698	SN5402N	1820-0615	02037	MC8312P
1820-0242	03406	LM301AH, 22V	1820-0446	01698	SN5474N	1820-0616	02237	9322PC
1820-0247	03406	LM305H	1820-0447	01698	SN5410N	1820-0617	02037	MC3022P
1820-0249	01921	CA3051	1820-0448	01698	SN5400N	1820-0618	01698	SN7417N
1820-0252	02037	MC1026P	1820-0449	02037	MC3060P	1820-0619	01698	SN74H22N
1820-0253	02037	MC1035P	1820-0450	02910	N8290N	1820-0620	01698	SN74153N
1820-0256	01698	SN15858N	1820-0451	02037	MC3062P	1820-0621	01698	SN7438N
1820-0257	02037	MC857P	1820-0454	02037	MC1805P	1820-0622	01698	SN74151AN
1820-0258	01698	SN15882N	1820-0455	02910	N8288N	1820-0623	03406	DM8200N
1820-0259	02037	MC840P	1820-0456	02910	N8855N	1820-0625	02037	MC666P
1820-0260	02037	MC839P	1820-0457	02910	N8162N	1820-0626	02037	MC8314P
1820-0261	01698	SN74121N	1820-0458	02910	N8816N	1820-0627	02237	93L01PC
1820-0262	03406	DM8590N	1820-0459	02910	N8440N	1820-0628	01698	SN7489N
1820-0269	01698	SN7403N	1820-0460	02910	N8480N	1820-0629	01698	SN74S112N
1820-0270	02237	733HC	1820-0461	02910	N8880N	1820-0630	02037	MC4044P
1820-0272	02037	MC1022P	1820-0462	02910	N8251N	1820-0631	01698	SN74H108N
1820-0273	02037	MC1806P	1820-0463	02910	N8H70N	1820-0637	02910	N8A75N
1820-0274	02037	MC1808P	1820-0464	02910	N8H90N	1820-0639	02037	MC4001P
1820-0275	02037	MC1039P	1820-0465	02910	N8H80N	1820-0640	01698	SN74150N
1820-0276	02037	MC1033P	1820-0466	02910	N8825N	1820-0655	01698	SN7424N
1820-0277	02037	MC1460R	1820-0467	02910	N8881N	1820-0656	01698	SN74L98N
1820-0279	01698	TI XL105	1820-0468	01698	SN7445N	1820-0657	02237	9318PC
1820-0281	01698	SN74107N	1820-0469	01698	SN74H102N	1820-0658	02237	93L122PC
1820-0282	01698	SN7486N	1820-0470	03285	118A	1820-0659	02237	93L00PC
1820-0287	02037	MC672P	1820-0471	01698	SN7406N	1820-0661	01698	SN7432N
1820-0288	02037	MC662P	1820-0472	02037	MC1001P	1820-0665	02037	MC1814P
1820-0294	02237	74164PC	1820-0473	02037	MC1048P	1820-0666	02037	MC1006P
1820-0297	01921	CA3000	1820-0474	01921	CA3012	1820-0667	02037	MC1040P
1820-0298	01921	CA3020	1820-0475	03406	LM306H	1820-0668	01698	SN7407N
1820-0301	01698	SN7475N	1820-0476	02237	715HC	1820-0669	02237	93L10PC
1820-0302	02910	SP670N	1820-0477	00039	UPC301AC	1820-0681	01698	SN74S00N
1820-0303	02910	SP680N	1820-0478	03406	LM308H	1820-0682	01698	SN74S03N
1820-0304	01698	SN7472N	1820-0479	02037	MC835P	1820-0683	01698	SN74S04N
1820-0305	01698	SN7483AN	1820-0482	02237	98380C	1820-0684	01698	SN74S05N
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1820-0307	01698	SN15836N	1820-0485	02237	98160C	1820-0686	01698	SN74S11A
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1820-0323	02037	MC889P	1820-0507	02910	N8263N	1820-0700	02037	MC3029P
1820-0324	02037	MC824P	1820-0508	02910	N8202N	1820-0701	02237	93L14PC
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1820-0327	01698	SN7401N	1820-0511	01698	SN7408N	1820-0704	01698	SN74122N
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1820-0723	01698	SN75107AN	1820-0910	01698	SN74LS83AN	1820-1052	02037	MC10125L
1820-0724	02037	MC4007P	1820-0911	01698	SN74L192N	1820-1053	01698	SN7414N
1820-0725	01698	SN74170J	1820-0912	01698	SN74L193N	1820-1056	01698	SN74132N
1820-0726	01698	SN74199N	1820-0913	01698	SN74L122N	1820-1057	03406	DM86L76N
1820-0727	02237	9321PC	1820-0914	02037	MC8307P	1820-1062	03794	C2401
1820-0730	02237	96L020C	1820-0916	02037	MC1065P	1820-1063	02237	9313PC
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1820-0734	01698	SN74190N	1820-0919	02037	MC1692L	1820-1065	03406	DS0026CG
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1820-0741	02237	9328PC	1820-0925	01921	CD4032AE	1820-1070	01698	SN5430J
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1820-0743	01698	SN74194N	1820-0927	01921	CD4028AF	1820-1072	01698	SN74S139N
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1820-0790	02037	MC1660L	1820-0946	01921	CD4001UBE	1820-1093	01698	SN5400J
1820-0791	02037	MC1068P	1820-0947	01921	CD4030AE	1820-1094	01698	SN5410J
1820-0792	02037	MC1043P	1820-0948	01921	CD4002UBE	1820-1095	01698	SN5474J
1820-0793	02037	MC1674L	1820-0949	01921	CD4011UBE	1820-1096	01698	SN54196J
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1820-0795	02037	MC1664L	1820-0951	01921	CD4013BE	1820-1098	02910	S8292P
1820-0796	02037	MC1662L	1820-0952	02237	9520C	1820-1099	01698	SN5408J
1820-0797	02037	MC1672L	1820-0953	02237	9530C	1820-1100	01698	SN74298N
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1820-0825	02037	MC10141L	1820-0977	01921	CD4034AF	1820-1137	01698	SN15809N
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1820-0832	03406	MM0007C	1820-0986	03406	DM86L75N	1820-1146	01921	CD4050BE
1820-0833	02237	9334PC	1820-0987	02237	93L1RPC	1820-1148	03406	DM8090N
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1820-0839	01698	SN74175N	1820-0993	04078	MK6036P	1820-1157	02037	MC2259L
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1820-0860	02037	MC851L	1820-1015	01698	SN74S154N	1820-1174	01698	TMS-4024NC
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1820-1196	01698	SN74LS174N	1820-1315	01921	CD40518E	1820-1448	0169R	SN74509N
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1820-1207	01698	SN74LS30N	1820-1327	02037	MC145308CP	1820-1459	0169R	SN74170N
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1820-1211	01698	SN74LS86N	1820-1331	01921	CD40548E	1820-1463	0169R	SN74390N
1820-1212	01698	SN74LS112AN	1820-1332	02037	MC4018P	1820-1464	0169R	SN74393N
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1820-1214	01698	SN74126N	1820-1336	02237	481180C	1820-1466	02237	40174PC
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1820-1216	01698	SN74LS138N	1820-1340	02037	MC145858CP	1820-1468	03406	DM8542
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1820-1218	01698	SN74LS157N	1820-1346	0169R	TMS3120NC	1820-1470	0169R	SN74LS157N
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1820-1225	02037	MC10231P	1820-1356	02037	MC145288CP	1820-1476	02910	NR196N
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1820-1229	01698	SN74111N	1820-1359	02037	MC10174P	1820-1479	02037	MC145538CP
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1820-1244	01698	SN74LS153N	1820-1374	03285	AD751001JN	1820-1495	02037	MC140488CP
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1820-1253	01698	SN54500J	1820-1383	02037	MC10138L	1820-1503	02037	MC140078CP
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1820-1261	01698	SN74283N	1820-1391	03406	MM74C161N	1820-1511	02037	MC140028CP
1820-1262	01698	SN74290N	1820-1392	03406	MM74C89N	1820-1512	02037	MC140288CP
1820-1263	01698	SN74H15N	1820-1394	03406	DM86L79N	1820-1513	01921	CD40518F
1820-1264	01698	SN74293N	1820-1395	03411	P3404	1820-1514	01921	CD40148E
1820-1265	02037	MC145278CP	1820-1398	03794	AM2505PC	1820-1515	01921	CD4556BE
1820-1266	02237	40097PC	1820-1399	02037	MC10176P	1820-1516	01921	CD4555BE
1820-1267	01698	SN74184N	1820-1400	02037	MC10104P	1820-1518	03406	DM74L08N
1820-1268	01698	SN74LR5N	1820-1402	03406	MM80C95N	1820-1519	02037	MC663P
1820-1269	01698	SN74LS17N	1820-1403	01921	CD40729E	1820-1520	02037	MC669P
1820-1270	01698	SN74L121N	1820-1404	01921	CD40670URE	1820-1521	02037	MC140508CP
1820-1271	01698	SN74143J	1820-1405	01921	CD40758E	1820-1522	02037	MC3440P
1820-1272	01698	SN74LS33N	1820-1407	01921	CD40748E	1820-1524	02037	MC8602L
1820-1273	01698	SN74LS28N	1820-1408	01921	CD40738E	1820-1525	02037	MC140088CL
1820-1274	01698	SN74LS22N	1820-1409	01921	CD40828E	1820-1526	02037	MC140288CL
1820-1275	01698	SN74S260N	1820-1410	01921	CD40688E	1820-1527	02037	MC140228CL
1820-1276	01698	SN74LS194AN	1820-1411	0169R	SN74LS75N	1820-1528	01921	CD40298F
1820-1277	01698	SN74LS192N	1820-1412	02037	MC145568CP	1820-1529	01921	CD40184F
1820-1278	01698	SN74LS191N	1820-1413	01921	CD45118F	1820-1530	01921	CD40274F
1820-1279	01698	SN74LS190N	1820-1414	0169R	SN74LS12N	1820-1531	01921	CD40134F
1820-1280	01698	SN74LS181N	1820-1415	0169R	SN74LS13N	1820-1532	01921	CD4044F
1820-1281	01698	SN74LS139N	1820-1416	0169R	SN74LS14N	1820-1533	01921	CD40434F
1820-1282	01698	SN74LS109AN	1820-1417	0169R	SN74LS26N	1820-1534	01921	CD40014F
1820-1283	01698	SN74LS958N	1820-1418	0169R	SN74LS42N	1820-1535	01921	CD40254F
1820-1284	01698	SN74LS55N	1820-1419	0169R	SN74LS85N	1820-1536	01921	CD40304F
1820-1285	01698	SN74LS54N	1820-1420	0169R	SN74LS92N	1820-1537	01921	CD40024F
1820-1286	01698	SN74LS40N	1820-1421	0169R	SN74LS96N	1820-1538	01921	CD40114F
1820-1287	01698	SN74LS37N	1820-1422	0169R	SN74LS122N	1820-1539	01921	CD40124F
1820-1288	02037	MMH0026CL	1820-1423	0169R	SN74LS123N	1820-1540	01921	CD40424F
1820-1289	02910	NR114N	1820-1424	0169R	SN74LS124N	1820-1541	01921	CD40154F
1820-1290	02237	935120C	1820-1425	0169R	SN74LS132N	1820-1542	01921	CD40494F
1820-1291	03406	DM8554N	1820-1426	0169R	SN74LS145N	1820-1543	01921	CD40504F
1820-1292	03406	DM8520N	1820-1427	0169R	SN74LS156N	1820-1544	01921	CD40768F
1820-1293	03406	DM8130N	1820-1428	0169R	SN74LS158N	1820-1545	01921	CD40535F
1820-1294	03406	DM8123N	1820-1429	0169R	SN74LS160AN	1820-1546	02037	MC140528CL
1820-1295	03406	DM8121N	1820-1430	0169R	SN74LS161AN	1820-1547	02037	MC140518CL
1820-1296	01698	SN74LS2958N	1820-1431	0169R	SN74LS162AN	1820-1548	01921	CD40664F
1820-1297	01698	SN74LS266N	1820-1432	0169R	SN74LS163AN	1820-1549	02037	MC145398CL
1820-1298	01698	SN74LS251N	1820-1433	0169R	SN74LS164N	1820-1550	01921	CD40718F
1820-1300	01698	SN74LS195AN	1820-1434	0169R	SN74LS668N	1820-1551	01921	CD40818F
1820-1301	01698	SN74S257N	1820-1435	0169R	SN74LS669N	1820-1552	01921	CD40238F
1820-1302	01698	SN74S251N	1820-1436	0169R	SN74LS170N	1820-1553	01921	CD40194F
1820-1303	01698	SN74S195N	1820-1437	0169R	SN74LS221N	1820-1554	01921	CD40354F
1820-1304	01698	SN74S194N	1820-1438	0169R	SN74LS257AN	1820-1555	01921	CD45568F
1820-1305	01698	SN74S182N						

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1820-1563	03406	MM74C14N	1820-1753	03406	MM74C74N	1820-1930	02037	MC14078BCP	
1820-1568	01698	SN74LS125AN	1820-1754	03677	S2350-2	1820-1931	02037	MC14068BCP	
1820-1569	02037	MC14538BCL	1820-1755	03406	MM5371N	1820-1932	02037	MC14538BCP	
1820-1570	02037	MC14532BCL	1820-1756	03406	MM5312N	1820-1933	03406	MM74C74J	
1820-1573	02037	MC14558BCP	1820-1758	02037	MC3245L	1820-1934	02180	DAC-08EQ	
1820-1574	01698	SN74LS73AN	1820-1759	03406	DM81LS97N	1820-1935	03486	MM74C905J	
1820-1575	03406	MM74C192N	1820-1777	02910	N82S83N	1820-1936	02037	MC14093BCL	
1820-1576	03406	MM74C107N	1820-1778	03406	MM74C914N	1820-1937	03406	MM74C83N	
1820-1577	01921	CD40938P	1820-1779	02037	MC14411P	1820-1941	03406	LF13201M	
1820-1578	01921	CD40768P	1820-1780	02237	11C900C	1820-1942	01698	SN74S163J	
1820-1579	03794	AM2803HC	1820-1781	03799	HI2-200-5	1820-1943	01698	SN74S169J	
1820-1580	01698	SN74247N	1820-1782	03794	AM26502PC	1820-1944	02037	MC10130L	
1820-1585	02910	74123N	1820-1783	01698	TMS0800ANL	1820-1945	02037	MC10115L	
1820-1586	02237	45128PC	1820-1784	01698	SN74LS91N	1820-1946	02037	MC10117L	
1820-1587	03406	DM8859N	1820-1785	01698	SN74LS261N	1820-1947	02037	MC14490FP	
1820-1588	02037	MC14564BCP	1820-1786	02037	MC3459PC	1820-1948	01698	TL607CP	
1820-1590	03406	MM74C14J	1820-1787	01698	SN7427J	1820-1949	01698	SN74LS154N	
1820-1591	02037	MC14519BCL	1820-1788	02237	F10016DC	1820-1950	02037	MC10212P	
1820-1592	02037	MC14069UHCL	1820-1789	03285	AD7530JN	1820-1955	01921	CD4008HE	
1820-1594	01698	SN5495AN	1820-1791	01698	SN74284N	1820-1956	01921	CD4042BE	
1820-1595	01698	SN54H106N	1820-1792	01698	SN74285N	1820-1957	01921	CD4511BE	
1820-1600	01921	CD40938E	1820-1793	01698	SN74116N	1820-1958	01921	CD4015HE	
1820-1601	01921	CD4070HE	1820-1794	03406	DM81LS95N	1820-1959	01921	CD4508BE	
1820-1602	01698	SN74LS474N	1820-1795	03406	LF13331	1820-1960	02037	MC14012BCP	
1820-1603	03406	MM74C08N	1820-1796	03406	DS3611N	1820-1961	02037	MC14023BCP	
1820-1604	01698	SN74LS44AN	1820-1797	03406	DM0035CG	1820-1962	01921	CD4028HE	
1820-1605	02037	MC668P	1820-1798	01698	SN54LS74AJ	1820-1963	01921	CD40138AE	
1820-1606	02037	MC667P	1820-1799	01698	SN54LS02J	1820-1964	01921	CD4027BE	
1820-1608	02910	2533V	1820-1800	01698	SN74S20BJ	1820-1965	02037	MC14025BCP	
1820-1611	01698	SN75367N	1820-1804	02037	MP96442	1820-1968	03794	AM93548PC	
1820-1612	03406	MM74C221J	1820-1806	03406	MM74C85N	1820-1970	02037	MC14071BCP	
1820-1613	03811	D8080A	1820-1807	02883	DG2008A	1820-1971	02883	DG201CJ	
1820-1624	01698	SN74S241N	1820-1810	02037	MC3460P	1820-1973	01698	TL6041P	
1820-1626	03406	MM74C20N	1820-1813	02237	40278DC	1820-1974	01698	SN74S181AJ	
1820-1627	03406	MM74C02N	1820-1815	02037	MC145178CP	1820-1975	01698	SN74LS165N	
1820-1628	00350	KR2240	1820-1817	02910	N8T37N	1820-1976	01921	CD4050BE	
1820-1632	02037	MC101178P	1820-1821	01698	SN74LS113AN	1820-1977	02037	MC12061P	
1820-1633	01698	SN74S240N	1820-1823	03406	MM80C97J	1820-1978	03794	AM25L04PC	
1820-1635	02037	MC14502RAL	1820-1826	01698	SN75112N	1820-1979	02237	9368PC	
1820-1637	03795	MC6870A	1820-1827	03406	MM74C154N	1820-1980	02910	N82531N	
1820-1638	01698	SN74S280N	1820-1828	02910	N8T28N	1820-1981	03794	AM25509PC	
1820-1639	01698	SN74S135N	1820-1830	02037	MC10210L	1820-1982	01698	SN75363N	
1820-1640	01698	SN74LS366AN	1820-1831	02037	MC10103L	1820-1984	03285	AD561KD	
1820-1641	01698	SN74LS365AN	1820-1832	02037	MC10212L	1820-1985	03406	DM8556BJ	
1820-1642	01698	SN74LS324N	1820-1833	01698	SN75361AN	1820-1986	03406	LF13202N	
1820-1643	01698	SN74LS249N	1820-1834	02237	11C70DC	1820-1987	01698	SN74LS299N	
1820-1644	01698	SN74LS248N	1820-1838	03285	AD562JD/BIN	1820-1988	03406	AH0019CD	
1820-1645	01698	SN74LS126AN	1820-1840	02883	DG201CJ	1820-1989	02237	74LS593PC	
1820-1646	01921	CD4055BE	1820-1841	02883	DG5068R	1820-1990	02037	MC10100L	
1820-1647	01698	SN74LS502J	1820-1842	02037	MC3442P	1820-1991	01698	SN74LS390N	
1820-1648	00350	XR-2207CP	1820-1844	00039	UPD82510	1820-1992	03794	AM25LS160APC	
1820-1649	01921	CD4059AD	1820-1845	03406	DS8834N	1820-1993	02037	MC10158L	
1820-1650	01921	CD4098BE	1820-1849	02023	MM5873	1820-1994	01698	SN74LS243N	
1820-1651	03406	MM74C901N	1820-1850	02037	MC14560BCP	1820-1995	03285	AD7550BD	
1820-1652	03406	MM74C902N	1820-1851	01698	SN74LS148N	1820-1997	01698	SN74LS374N	
1820-1653	03406	MM74C703N	1820-1852	02037	MC1697P	1820-2001	03406	MM5307ABN	
1820-1654	03406	MM74C904N	1820-1854	02237	34702DC	1820-2002	02237	9370PC	
1820-1655	03406	MM74C906N	1820-1855	02037	MC145548CP	1820-2005	00039	UPD82530	
1820-1656	03406	MM74C907N	1820-1857	03406	DM8555N	1820-2006	03794	AM9080A-4DC	
1820-1657	02037	MC14572UBCP	1820-1858	01698	SN74LS377N	1820-2007	01698	SN74365N	
1820-1658	02037	MC145418CP	1820-1859	01698	SN74LS280N	1820-2008	02037	MC140158BCP	
1820-1659	01921	CD40182BY	1820-1862	02910	82541A	1820-2009	02237	40498PC	
1820-1660	01921	CD4067BE	1820-1863	02910	8T98R	1820-2013	02037	MC14051BCP	
1820-1661	01921	CD4089BE	1820-1864	03811	P3212	1820-2014	02037	MC140690BCP	
1820-1662	01921	CD4094BE	1820-1865	03794	AM25LS08PC	1820-2015	02037	MC14070BCP	
1820-1663	01921	CD4095BE	1820-1866	03794	AM25LS07PC	1820-2016	02237	9401PC	
1820-1664	01921	CD4096BE	1820-1867	03794	AM25LS09PC	1820-2017	01921	CD4085BF	
1820-1665	01921	CD4099BE	1820-1868	01698	SN74S197N	1820-2018	01921	CD4086BF	
1820-1666	01921	CD40181BY	1820-1869	01698	SN74S196N	1820-2019	02037	MC14584BCP	
1820-1667	01921	CD4060AE	1820-1870	03406	DS8839N	1820-2020	02634	UDM-5707A	
1820-1668	01698	SN74LS74AJ	1820-1871	01698	SN74S283N	1820-2021	02037	MC14520BCP	
1820-1669	01698	SN75452BL	1820-1872	03406	DM81LS96N	1820-2023	02037	MC10197P	
1820-1670	02237	75492PC	1820-1873	03406	DM81LS98N	1820-2024	01698	SN74LS244N	
1820-1672	01921	CD4077BE	1820-1874	03406	DM8556N	1820-2025	03714	ICL7101CPL	
1820-1673	01698	SN75322N	1820-1875	02910	8T38N	1820-2026	01698	SN74LS396N	
1820-1674	03406	MM74C30N	1820-1876	03794	AM74S161N	1820-2027	02237	3053PC	
1820-1675	01921	CD4016AF	1820-1877	03794	AM74S160N	1820-2030	02037	MC6828P	
1820-1676	01698	SN74S373N	1820-1878	01698	SN5425J	1820-2031	01921	CD4021BE	
1820-1677	01698	SN74S374N	1820-1879	01698	SN54LS00J	1820-2032	02237	4104PC	
1820-1681	00575	TR1602A	1820-1880	01698	SN54LS27J	1820-2033	02037	MC14561BCP	
1820-1682	03334	SA11027	1820-1881	01921	CD4097BF	1820-2035	03811	P3205	
1820-1683	01921	CD4514BE	1820-1882	02037	MC10113L	1820-2036	02037	MC6875L	
1820-1684	01921	9LS1922PC	1820-1884	02910	N8T97N	1820-2037	02037	MC14081BCP	
1820-1685	02037	MC10195P	1820-1885	03406	DM74LS173N	1820-2038	03406	MM74C00J	
1820-1686	02037	MC10103P	1820-1887	01698	SN75361AP	1820-2039	03794	AMR224-4PC	
1820-1687	02037	MC3443P	1820-1888	02037	MC12013L	1820-2040	03406	MM5315N	
1820-1688	01698	SN74LS247N	1820-1889	01698	SN74LS26N	1820-2041	03406	DS3612N	
1820-1689	01698	MC3446P	1820-1890	01698	SN74LS258AN	1820-2042	01698	SN54LS221J	
1820-1690	02037	MC6850L	1820-1891	01698	SN74LS00N	1820-2043	01698	SN54197J	
1820-1693	02037	MC14508BCL	1820-1892	01698	SN74LS367N	1820-2044	01698	SN75461P	
1820-1699	02237	74LS175PC	1820-1897	01921	CD4024BF	1820-2046	01698	SN74LS353N	
1820-1700	02237	74LS174PC	1820-1898	01921	CD4021BF	1820-2047	01590	SP6228DG	
1820-1701	03794	AM9080A-2DC	1820-1899	01921	CD4516BF	1820-2049	02037	SN74LS196N	
1820-1720	03406	DM2504CM	1820-1900	01921	CD4520BF	1820-2050	02037	MC145558CP	
1820-1721	02037	MC14549BCP	1820-1903	02237	9368PC	1820-2051	02037	MC14528BCL	
1820-1722	02037	MC145598CP	1820-1905	02237	74LS260PC	1820-2053	02910	74LS154N	
1820-1724	02883	DG1848P	1820-1906	02237	340098DC	1820-2054	02037	MC14040BCL	
1820-1725	02883	DG508CJ	1820-1907	02037	MC14077BCL	1820-2055	02037	MC140158L	
1820-1728	01698	SN74278N	1820-1908	02037	MC14070BCL	1820-2056	01698	SN74LS378N	
1820-1729	01698	SN74LS259N	1820-1909	02037	MC14075BCL	1820-2060	00039	UPD369C	
1820-1730	01698	SN74LS275N	1820-1910	02037	MC14073BCL	1820-2064	01698	SN54LS174J	
1820-1731	01698	SN74LS73N	1820-1911	00575	TR1602B-05	1820-2065	03406	MM74C151N	
1820-1732	03794	AM74LS138N	1820-1912	02037	MC140428CP	1820-2066	02037	MC10178L	
1820-1733	03794	AM74LS175N	1820-1914	01698	SN74LS174N	1820-2067	02037	MC10162L	
1820-1735	03406	MM74C42N	1820-1915	02037	MC1204L	1820-2068	01698	SN74LS325N	
1820-1738	03406	DM8864AN	1820-1917	01698	SN74LS240N	1820-2069	03811	P4040	
1820-1739	03406	DS8897N	1820-1918	01698	SN74LS241N	1820-2070	03811	D4289	
1820-1740	03406	DS8863N	1820-1919	00039	UPD8255AD	1820-2071	03811	D4201	
1820-1745	0203								

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1820-2079	02037	MC14002BCP	1820-2223	02037	MC14032BCP	1820-2383	02037	MC14569BCP
1820-2080	02037	MC14035BCP	1820-2224	02037	MC14038BCP	1820-2384	01698	SN74LS399N
1820-2081	02037	MC68A21P	1820-2225	01921	CD0401UBF	1820-2385	02037	MC10189P
1820-2082	01698	SN54A2AJ	1820-2226	01921	CD04058F	1820-2389	02037	MC2902APC
1820-2083	02237	40298PC	1820-2227	01921	CD040008F	1820-2390	02237	100101FC
1820-2084	01921	CD040188E	1820-2228	02037	MC14044BCP	1820-2391	02237	1001022FC
1820-2085	02237	40198PC	1820-2229	01921	CD045128F	1820-2392	02237	100107FC
1820-2086	01921	CD040068E	1820-2230	01921	CD040478F	1820-2393	02237	100112FC
1820-2087	03714	IM6402CDL	1820-2231	01921	CD040318F	1820-2394	02237	100131FC
1820-2088	02237	9613TC	1820-2232	02037	MC14034BCP	1820-2395	02237	100136FC
1820-2089	02237	9612TC	1820-2233	01921	CD040998F	1820-2396	02237	100141FC
1820-2090	02037	MC14082BCP	1820-2234	03406	DS3649N	1820-2397	02237	100151FC
1820-2091	02037	MC140758PC	1820-2236	01698	SN55453BJG	1820-2398	02237	10000DC
1820-2092	01698	TMS3129DC	1820-2238	03406	10N2901ADC	1820-2399	02037	MC10123P
1820-2093	02237	F1001DDC	1820-2239	03406	DP8304N	1820-2400	02037	MC10128L
1820-2094	02237	9616PC	1820-2240	02037	MC68A08P	1820-2401	02037	MC10173P
1820-2095	02237	9627PC	1820-2241	01921	CD0401038F	1820-2402	02037	MC10175P
1820-2096	01698	SN74LS393N	1820-2242	02237	950030C	1820-2403	02037	MC10186P
1820-2097	02037	MC145438PC	1820-2243	01698	SN75469N	1820-2404	02237	11C19DC
1820-2098	03406	DM8099N	1820-2244	01698	SN74LS379N	1820-2405	03794	AM25LS25200C
1820-2099	02037	MC6802P	1820-2246	03406	MMS3694A/N	1820-2407	02237	11C01FC
1820-2100	02237	3861EPC	1820-2247	02910	NB2510G1	1820-2408	02237	100164FC
1820-2102	01698	SN74LS373N	1820-2248	01698	SN54LS08J	1820-2409	02037	MC10804L
1820-2103	03406	DS0056CJ-8	1820-2249	01698	SN54LS10J	1820-2410	03811	P8291
1820-2104	01698	SN74LS242N	1820-2250	01698	SN54LS30J	1820-2411	02037	MC6800P
1820-2106	02237	F11C06DC	1820-2251	01698	SN54LS196J	1820-2413	03406	MM82C19N
1820-2107	02037	SN74LS00N	1820-2252	01698	SN54530J	1820-2414	02237	9319PC
1820-2108	02910	NRT31N	1820-2253	01698	SN54540J	1820-2415	02037	MC2918PC
1820-2109	03811	D8253	1820-2254	01698	SN75492N	1820-2416	03406	MM5035P
1820-2110	01698	SN75477P	1820-2257	02037	MC145038PC	1820-2417	03406	DS88C20N
1820-2111	01698	SN7546AN	1820-2258	02037	MC14174BCP	1820-2419	00575	TR1863A
1820-2113	02037	MC68A88L	1820-2259	01698	AC5947NF	1820-2420	02037	MC10171P
1820-2114	02237	FCM7002PC	1820-2260	03406	IMD2911ANC	1820-2421	02037	MC10163P
1820-2117	02237	9636ATC	1820-2261	01698	SN54LS11J	1820-2422	03406	IDM2901A-1NC
1820-2118	02237	96S02PC	1820-2262	03794	AM25LS2559PC	1820-2423	00575	TR1863B
1820-2120	03794	AM25LS140C	1820-2264	02237	40408PC	1820-2424	02037	MC3447P
1820-2121	01698	SN74LS348N	1820-2265	02237	40088PC	1820-2425	08608	SS1104A
1820-2124	01921	CD040438E	1820-2266	02910	NE590F	1820-2426	08608	SS1105A
1820-2125	02237	401638PC	1820-2267	02910	NE591F	1820-2428	02037	MC68A488P
1820-2126	03406	MMS313N(76+)	1820-2268	01698	SN74LS645N	1820-2429	02037	MCC1670
1820-2127	01698	SN74276FN	1820-2270	03794	AM25LS2569DC	1820-2433	03811	C8748-1
1820-2128	01698	SN75116AN	1820-2271	03811	P8039	1820-2434	04078	MK3881W-4
1820-2129	02634	UHP-407	1820-2273	02634	UDN2981A	1820-2441	03811	D8741A
1820-2130	02634	ULN-2074B	1820-2274	02634	ULN-2068R	1820-2442	03794	AM2909PC
1820-2132	03714	ICM7218A	1820-2275	03406	MN74C90N	1820-2443	03406	INS8250N
1820-2133	02037	MC670P	1820-2276	03406	MN74C86N	1820-2444	02037	MC14562BCP
1820-2134	01698	SN75234N	1820-2277	02037	MC140228BAL	1820-2445	03794	AM25LS161APC
1820-2136	03406	DS8973N	1820-2278	03811	D8748	1820-2446	05917	P803520
1820-2137	02037	MC68A00P	1820-2279	02037	MC14175BCP	1820-2449	02037	MC10165P
1820-2138	03406	DS8871N	1820-2282	01698	SN55461UG	1820-2450	02037	MC10189P
1820-2140	01590	SP861080G	1820-2283	01698	SN55462UG	1820-2451	02037	MC10168P
1820-2141	01698	SN75498N	1820-2284	02037	MC68A50P	1820-2452	08659	TDC1010J
1820-2143	03811	P8257	1820-2285	03795	MC6871A-1.0MHZ	1820-2453	01698	SN74LS5642N
1820-2144	02037	MC3486P	1820-2287	02910	N74S253N	1820-2454	03794	AM25S07DC
1820-2145	02037	MC3487P	1820-2288	04078	MK3885P	1820-2455	02037	MC10172P
1820-2148	02037	MC68A488L	1820-2289	03811	D8251A	1820-2456	00575	FD1791A-02
1820-2150	03811	D8279-5	1820-2290	03406	DS3632N	1820-2457	02910	825100N
1820-2151	02037	MC6802L	1820-2291	02037	MC68860P	1820-2458	03794	AM25S10PC
1820-2154	02237	3816PC	1820-2292	01590	SP861180G	1820-2459	03794	AM25S18PC
1820-2155	02910	2651I	1820-2293	02037	MC68H00P	1820-2460	01698	SN74LS169AN
1820-2156	03406	MN74C922N	1820-2296	02037	MC8502P	1820-2461	02037	MC3407P3
1820-2157	02037	MC3450P	1820-2297	02037	MC8500P	1820-2462	02037	MC14513BCP
1820-2158	02037	MC3452P	1820-2298	04078	MK3880N-4	1820-2463	02037	MC6844P
1820-2159	01698	SN75117P	1820-2299	04078	MK3883N-4	1820-2464	01698	SN74LS76AN
1820-2160	03794	AM74LS244N	1820-2300	04078	MK3887N-4	1820-2465	03794	AM25LS2538PC
1820-2161	03406	DS8835N	1820-2301	04078	MK3882N-4	1820-2466	03714	ICM75551PA
1820-2163	02910	2652I	1820-2304	01698	SN7422J	1820-2469	02037	MC6840P
1820-2164	01698	SN74120N	1820-2305	01698	SN74LS123J	1820-2470	02037	MC6850P
1820-2165	02037	MC6881P/MC3449P	1820-2306	02037	MC14490VP	1820-2473	02634	ULN-2065B
1820-2166	02037	MC14412VP	1820-2307	02037	MC68A40P	1820-2474	02037	MC10179P
1820-2168	03794	AM2502PC	1820-2308	03811	P8039-6	1820-2475	02037	MC10133P
1820-2170	02634	ULN-2064B	1820-2309	03406	MN74C923N	1820-2476	02037	MC10132P
1820-2172	02237	3852PC	1820-2310	04078	MMS0399N	1820-2477	02037	MC10170P
1820-2173	02237	3854PC	1820-2311	01698	SN74LS673N	1820-2478	02037	MC10182P
1820-2174	03406	DS3631N	1820-2313	02237	F3871PC	1820-2479	02037	MC10183L
1820-2175	02037	MC6852CP	1820-2315	02237	951020C	1820-2480	02037	MC10194P
1820-2176	03811	P8035L	1820-2322	04078	MMS009P	1820-2481	02037	MC10180P
1820-2177	00039	UPD8243C	1820-2323	02037	MC10166L	1820-2482	02037	MC10129L
1820-2179	01698	SN7405J	1820-2324	02037	MC10114P	1820-2483	01698	SN75161N
1820-2180	02037	MC68A21L	1820-2326	02037	MC14504BCP	1820-2485	01698	SN75160N
1820-2181	01698	SN75417NE	1820-2327	08323	1A03-6001	1820-2487	01921	CD04056F
1820-2185	04092	SN745373J	1820-2328	02910	2661-1I	1820-2488	01698	SN74ALS74N
1820-2186	01698	SN75497N	1820-2329	00575	FD1791B-02	1820-2489	02037	MC6885P
1820-2187	03714	ICM7226A	1820-2330	01921	CD040688F	1820-2490	02910	825103N
1820-2188	04078	MK3880N	1820-2331	01921	CD040788F	1820-2494	02037	MC10210P
1820-2190	03794	AM25LS2518PC	1820-2338	01590	SP861780G	1820-2495	02037	MC10175L
1820-2191	03811	D8275	1820-2339	04078	MK3881N	1820-2496	02037	MC10174L
1820-2193	02037	MC10176L	1820-2340	03794	AM9511DC	1820-2497	02037	MC10173L
1820-2195	02910	74LS04N	1820-2343	03406	MN74C83N	1820-2498	02037	MC10172L
1820-2198	02237	9637ATC	1820-2344	02037	MC14557HCP	1820-2500	02037	MC10171L
1820-2199	02237	9638TC	1820-2345	02883	D139HP	1820-2501	02037	MC10170L
1820-2200	01698	SN74LS147N	1820-2346	01698	SN74LS5221J	1820-2502	02037	MC10165L
1820-2201	01698	SN74LS322AN	1820-2347	02037	MC10159L	1820-2503	02037	MC10163L
1820-2202	01698	SN74LS323N	1820-2348	02037	MC10805L	1820-2504	02037	MC10161L
1820-2203	03794	AM26LS32PC	1820-2349	01698	TMS9900JL	1820-2505	02037	MC6800DL
1820-2204	03714	IM6402-11PL	1820-2350	01698	SN74LS362N	1820-2506	02237	74F04PC
1820-2205	03811	P8085A-2	1820-2351	01698	SN743AJ	1820-2507	02037	MC10153L
1820-2206	01698	SN74LS640N	1820-2352	01698	SN75119P	1820-2508	02037	MC10113P
1820-2207	01698	SN75471P	1820-2353	03406	DM8131N	1820-2509	02237	100122DC
1820-2208	01698	SN75462P	1820-2357	03811	D8291	1820-2510	02237	100136DC
1820-2209	01921	CD040978E	1820-2358	02037	MC68800L	1820-2511	02237	100164DC
1820-2210	03406	MN74C00N	1820-2359	02237	F10014PC	1820-2512	02237	100179DC
1820-2211	03406	MN74C04N	1820-2360	03794	AM8279PC	1820-2513	02237	100181DC
1820-2212	03406	MN74C10N	1820-2361	01698	SN75327N	1820-2514	02237	100140DC
1820-2213	03406	MN74C32N	1820-2362	01698	SN75159N	1820-2515	02037	MC10231L
1820-2214	03406	MN74C162N	1820-2363	03406	DS8867N	1820-2516	02037	MC10100P
1820-2215	03406	MN74C373N	1820-2365	02237	9644TC	1820-2517	02037	MK3884N-4
1820-2216	03406	MN74C374N	1820-2366	02037	SN74LS569N	1820-2519	03811	P8259A

HP P/N	Mfr.	Desc.	1820-2690	02237	74F32PC	1826-0138	01698	LM339N
1820-2528	03811	ID8039	1820-2691	02237	74F74PC	1826-0139	01921	CA1459G
1820-2529	01698	SN54LS138J	1820-2692	02237	74F86PC	1826-0140	02037	MC1468R
1820-2536	01698	SN74LS352N	1820-2693	02237	74F109PC	1826-0141	03406	LM319J
1820-2537	03406	MM74C244N	1820-2694	02237	74F112PC	1826-0142	02037	MC14588CP1
1820-2538	03406	MM74C240N	1820-2695	02237	74F158PC	1826-0144	02037	MC7805CP
1820-2541	03406	MM74C925N	1820-2696	02237	74F175PC	1826-0145	02037	MC7806CP
1820-2541	00309	UPD1990C	1820-2697	02237	74F194PC	1826-0146	02037	MC7808CP
1820-2546	02037	MC6845P	1820-2698	02237	74F240PC	1826-0147	02037	MC7812CT
1820-2547	01698	SN75162N	1820-2699	02237	74F241PC	1826-0149	02037	MC7818CP
1820-2548	01698	TMS9914NL	1820-2700	02237	74F373PC	1826-0150	01698	UA7824CKC
1820-2550	01698	SN74LS137N	1820-2701	02237	74F374PC	1826-0152	02569	CDR125BK
1820-2551	01698	TMS9914JL	1820-2705	03794	AM9513PC	1826-0153	01921	CA3075
1820-2553	03794	AMZ8002DC	1821-0001	01921	CA3046	1826-0154	02883	DG2008A
1820-2556	03794	AM29018DC	1821-0002	01921	CA3045	1826-0155	02037	MC1406L
1820-2557	01698	SN74AS804N	1821-0006	02237	SN6501PC	1826-0156	03406	MM550H
1820-2558	01698	SN74AS804N	1826-0002	02037	MC1510G	1826-0159	02037	MC1350P
1820-2559	01698	SN74AS804N	1826-0003	02037	MC1456CG	1826-0160	02237	7806KC
1820-2562	02037	MC6803P	1826-0004	02237	UA304HC	1826-0161	02037	MLM324P
1820-2563	02037	SN74LS182N	1826-0006	02037	MC1469P	1826-0162	03406	LM321H
1820-2565	03794	AM74S244N	1826-0008	02180	SS5725H	1826-0164	02237	742PC
1820-2566	03406	MM74C240N	1826-0009	02180	SS5725CJ	1826-0165	03406	LM4250CH
1820-2567	01698	ACS948N	1826-0010	02237	723HM	1826-0167	01921	CA3094AT
1820-2569	02037	MC3453P	1826-0011	01698	SN5274I	1826-0169	03406	LM320K-15
1820-2570	01698	SN75365N	1826-001J	02180	SS5741CJ	1826-0172	03406	LM308N
1820-2571	02037	MC14569BCL	1826-0014	02037	MC1595L	1826-0173	03406	LM320K-5.2
1820-2572	01854	L-13-04	1826-0015	02037	CA3060D	1826-0175	03406	LM319N
1820-2573	03406	DMPAL14H9NC	1826-0016	02037	MLM2046	1826-0176	03285	A0560JH
1820-2574	03406	DMPAL12L6NC	1826-0017	03406	LM205H	1826-0177	02763	723BE
1820-2575	03406	DMPAL16R8NC	1826-0019	02037	MC1437L	1826-0178	03406	LM320H-12
1820-2576	02037	MC14011BCL	1826-0020	02180	DAC-01CY	1826-0179	03406	LM320H-5.2
1820-2577	01795	SYP6551	1826-0021	03406	LM310H	1826-0180	01698	NE555P
1820-2578	01698	SN74LS33J	1826-0022	02037	MC1439L	1826-0181	03406	LM323K
1820-2579	01698	SN74LS327J	1826-0023	02037	MC1496L	1826-0182	03285	A0540J
1820-2580	01698	SN74LS20J	1826-0024	02037	MC1469R	1826-0183	02237	UA734HC
1820-2581	01698	SN74LS08J	1826-0025	03406	LM208AH	1826-0184	02237	UA749DC
1820-2582	01698	SN74LS04J	1826-0026	01698	LM311L	1826-0185	01921	CA3080
1820-2583	01698	SN74LS00J	1826-0028	02037	MC1550G	1826-0188	02037	MC1408L-8
1820-2584	01698	SN74LS38J	1826-0029	02634	ULN-2111A	1826-0189	02910	NE566H
1820-2585	01698	SN74LS32J	1826-0031	02237	UA726HC	1826-0191	03406	LM319J
1820-2586	01698	SN74LS6J	1826-0032	02037	MC1463R	1826-0192	03406	LM320H-15
1820-2587	01698	SN74LS86J	1826-0033	02037	MC1463G	1826-0193	03714	IH5012CPE
1820-2588	01921	CD40608E	1826-0035	03406	LM308AH	1826-0194	02910	NE592A
1820-2589	01795	SYC6502R	1826-0036	02037	MC1494L	1826-0195	02883	LD111CJ
1820-2590	03793	SG3627	1826-0037	02037	MC1590G	1826-0196	02290	RC4195TK
1820-2592	01698	SN74LS320N	1826-0038	02037	MC1436G	1826-0197	02180	DAC-100C03
1820-2593	01698	SN7407J	1826-0040	02910	S5733A	1826-0198	02037	MFC4000R
1820-2596	03811	D8086-2	1826-0041	01921	CA3059	1826-0200	02037	MC1420G
1820-2597	03811	D8288	1826-0042	02037	MCC174I	1826-0201	03406	LM312J
1820-2598	03811	D8284	1826-0043	01921	CA3077	1826-0202	03406	LM320K-05
1820-2599	01698	SN74S482J	1826-0044	02237	UA739DC	1826-0203	02237	7815KC
1820-2600	02237	96LS02PC	1826-0047	02910	NE562B	1826-0204	02910	NE565A
1820-2601	03811	D8259A	1826-0048	02037	MCC1456	1826-0205	02910	NE556A
1820-2602	02037	MC68B21L	1826-0049	01698	UA723CJ	1826-0206	03406	LM381N
1820-2604	03794	AM9513CC	1826-0051	01698	TL514CN	1826-0207	01698	LM318P
1820-2605	03406	MM74C73N	1826-0055	02237	UA711DC	1826-0208	03406	LM310N
1820-2606	03406	MM74C76N	1826-0056	02237	UA740HC	1826-0209	03406	LM380N-8
1820-2610	01698	SN74LS566N	1826-0058	02910	NE501A	1826-0210	03406	LM361N
1820-2611	02237	100101DC	1826-0059	01698	LM201AL	1826-0212	02237	UA776TC
1820-2612	02037	MC6809L	1826-0060	02037	MC1438R	1826-0213	02910	NE521A
1820-2613	01698	SN74LS356N	1826-0061	03793	SG3501AJ	1826-0214	02037	MC7915CT
1820-2614	02237	100102DC	1826-0064	02037	MC1733CL	1826-0215	02037	MC7905-2CT
1820-2619	02910	2661-1T REVA	1826-0065	00039	UPC311C	1826-0217	02290	RC4558T
1820-2620	03811	D8088	1826-0067	02910	NE531H	1826-0218	01921	CA3100T
1820-2621	01698	SN74S225N	1826-0069	02237	LM301AD	1826-0219	02910	NE567V
1820-2622	01698	SN74LS624N	1826-0070	02037	MC1741CL	1826-0220	03406	LM320H-05
1820-2623	03406	MM58174N	1826-0071	02037	MC1456G	1826-0221	01698	UA7912CKC
1820-2624	02037	MC68B09P	1826-0072	02237	UA208H	1826-0222	02237	UA4136PC
1820-2625	01425	KR2376-ST-P	1826-0074	03285	AD503K (SEL)	1826-0224	02910	SE555CT
1820-2626	01698	ACS947N	1826-0075	01921	CA3079	1826-0225	03406	LM322N
1820-2627	01425	CR75027P	1826-0077	03406	LM311F	1826-0226	02237	78M12CJ
1820-2630	03406	MM74C941N	1826-0078	01921	CA3050	1826-0229	02180	OP-05CJ
1820-2631	06344	MB80865-R	1826-0079	03545	1321	1826-0230	01921	CA3053
1820-2634	01698	SN74ALS04N	1826-0081	03406	LM318H	1826-0231	02237	UA760HC
1820-2635	01698	SN74ALS08N	1826-0082	03285	AD7411L	1826-0232	03406	LM224J
1820-2637	03794	AMZ8002-1DC	1826-0086	02037	MC1776CG	1826-0233	03406	LM220K-15
1820-2638	03794	AMZ8001-1DC	1826-0087	01921	CA3004	1826-0235	03406	LM220K-12
1820-2641	01698	SN74LS374N	1826-0089	03545	1322	1826-0237	00350	XR320
1820-2644	01921	CD40508E	1826-0090	03285	AD741KH (SEL)	1826-0238	03406	LM325AS
1820-2646	03714	ICM7227A1PI	1826-0091	06563	DRAM 6.8R10	1826-0243	02037	MC1558G
1820-2647	03714	ICM7227C1PI	1826-0094	01698	SN75235N	1826-0244	02910	NE529A
1820-2648	02237	100165DC	1826-0098	03406	LM211H	1826-0245	03406	LM370N
1820-2649	04078	NK3880N-6	1826-0099	02237	78120C	1826-0246	02037	MC7805CK
1820-2650	04078	NK38P70/02R	1826-0100	01698	SN72747J	1826-0247	03780	A-4350
1820-2651	02037	MC6803L-1	1826-0101	02910	NE565K	1826-0248	02037	MC1408L-6
1820-2653	03794	AM25LS2569PC	1826-0102	03406	LM312H	1826-0249	03285	AD504J
1820-2654	02237	74F157PC	1826-0103	02037	MC1549G	1826-0251	03285	AD514K
1820-2655	01698	SN74LS5625N	1826-0104	03406	LM371H	1826-0252	03285	AD7520JN
1820-2656	01698	SN74ALS00N	1826-0105	02883	DG1728K	1826-0253	02037	MC3442P
1820-2657	01698	SN74ALS32N	1826-0106	02037	MC7815CP	1826-0254	02037	MC17415CPI
1820-2658	01921	CA3161E	1826-0108	03406	LH0062CH	1826-0256	02910	NE522A
1820-2662	01921	CD40116E	1826-0109	03799	HA2-2625-R0593	1826-0258	03793	SG1502N
1820-2664	02037	MC1678L	1826-0110	03406	LM212H	1826-0259	02037	MFC6070
1820-2665	00575	WDB250A	1826-0111	01921	CA1458T	1826-0262	02237	UA7824KC
1820-2666	01698	SN74S37J	1826-0112	03406	LM316AH	1826-0263	03285	A0532JD
1820-2667	03794	AM29018PC	1826-0113	03406	LM207H	1826-0264	03285	AD7520LN
1820-2668	01698	SN75114N	1826-0114	02237	710HM	1826-0266	02180	OP-05EJ
1820-2670	04092	PAL16L8CN	1826-0115	02910	NE526A	1826-0267	03406	LH0062CD
1820-2671	04092	PAL12H6CN	1826-0116	02180	CMP-01-CJ	1826-0268	03406	LM208D
1820-2672	01698	SN74LS623N	1826-0117	02237	7812KC	1826-0269	02910	NE566N
1820-2675	01698	SN74LS646N	1826-0119	02910	NE555T	1826-0270	03799	HA-2005A
1820-2676	02237	74F64PC	1826-0120	03406	LM3900N	1826-0271	01698	SN72741P
1820-2677	04092	PAL10H8CN	1826-0121	03714	8007C	1826-0272	03406	LM361H
1820-2678	04092	PAL14L4CN	1826-0122	02237	7805UC	1826-0274	02037	MC78L15ACP
1820-2679	04092	PAL16H2CN	1826-0123	02037	MC7912CX	1826-0275	02037	MC78L12ACP
1820-2680	04092	PAL16R6CN	1826-0124	02910	NE529K	1826-0276	02037	MC78L05ACP
1820-2681	04092	PAL16R4CN	1826-0125	02037	MC1514L	1826-0277	03406	LM320T-15
1820-2682	02634	UDN-5703A	1826-0126	02037	MC7818CK	1826-0281	02037	MC79L15ACP
1820-2683	02634	UDN-5706A	1826-0127	02180	DAC-100BC03	1826-0282	02037	MC79L12ACP
1820-2684	02237	74F00PC	1826-0128	02037	MC1468L	1826-0283	03406	LM325S
1820-2685	02237	74F02PC	1826-0129	03714	ICL8001CTZ	1826-0284	0	

HP P/N	Mfr.	Desc.						
1826-0293	02037	MC1306P	1826-0450	01698	TL497CN	1826-0591	06545	LAS 19U
1826-0294	02037	MC7905SCT	1826-0451	02037	MC7915CK	1826-0592	03406	LM358AH
1826-0295	03285	AD533JH	1826-0452	02883	LD130CJ	1826-0593	02763	8750CJ
1826-0299	01698	UA7924CKC	1826-0453	02180	DAC-180AC03	1826-0594	03406	LH0044CH
1826-0300	02237	UA7912AH	1826-0454	02910	NE527K	1826-0595	03285	AD522A (SEL)
1826-0301	01698	SN72L02AL	1826-0455	03714	ICL 8013CC T2	1826-0598	02037	MC12002P
1826-0302	02037	MC17415CG	1826-0456	02237	UA786GUC	1826-0599	02037	MC145688CP
1826-0303	01921	CA741G	1826-0457	03406	LM325H	1826-0600	01698	TL074ACN
1826-0304	03406	LF355H	1826-0458	03406	LF255H	1826-0601	02180	OP-16FJ
1826-0305	02237	79MGT2C	1826-0459	03406	LH0042CD	1826-0602	03285	AD7506GD
1826-0306	03406	LM339AJ	1826-0460	02237	UA78L26AMC	1826-0603	02237	UA78540PC
1826-0307	01921	CA3130T	1826-0462	02037	MC3410CL	1826-0605	02883	DG508RH
1826-0308	03285	AD562KD/BIN	1826-0464	02037	MC78M15CP	1826-0606	02883	DG201BK
1826-0309	03285	AD518J	1826-0465	01921	CA3140T	1826-0607	03406	LM340AT-15
1826-0311	02037	MLM201API	1826-0467	02037	MC1403P1	1826-0609	02180	MUX08FQ
1826-0312	02037	MC3403P	1826-0468	02037	MC3423P1	1826-0610	02180	MUX24FQ
1826-0314	03406	LM355-1H	1826-0469	03334	ATF431	1826-0611	03406	LM290AN
1826-0315	03406	LM348N	1826-0470	02037	MC14046BCP	1826-0616	02180	OP-11EY
1826-0316	03406	LH0070-1H	1826-0472	03406	LH0044CH	1826-0617	02910	78HV15CU
1826-0318	06338	T8A231	1826-0474	02037	MC3467P	1826-0620	01698	UA7924CKC
1826-0319	02037	LF356G	1826-0475	02037	MC3468P	1826-0621	02763	R702CN
1826-0320	03406	LM395K	1826-0476	01698	TL6101CP	1826-0622	02180	REF-02DJ
1826-0321	01921	CA3099E	1826-0477	01698	TL610CP	1826-0623	03406	LM334Z
1826-0324	03406	LM209K	1826-0478	02237	UA7906UC	1826-0624	05436	VFC32KP
1826-0325	02037	MCC1776	1826-0479	01698	LM293P	1826-0625	02910	NE5553N
1826-0326	02290	RC455ANB	1826-0480	03406	LF13335N	1826-0626	01921	CA3130AS
1826-0327	03285	AD518KH (SEL)	1826-0481	03406	LH0033CG	1826-0627	03285	AD542L
1826-0328	02290	RV4550DE	1826-0482	03714	HA2-2525-5	1826-0628	02180	OP-11FY
1826-0329	03406	LM1113-2H	1826-0483	02237	UA79M6UC	1826-0629	01698	UA79M12CKC
1826-0330	03406	LM299H	1826-0484	02237	UA78M6UC	1826-0631	03406	LM350K
1826-0331	02037	XC79L12CG	1826-0485	03285	AD7530LN	1826-0632	03406	LM343D
1826-0332	02037	XC79L05CG	1826-0486	02037	MC140528CP	1826-0633	02910	NE5532AT
1826-0333	02237	78L12AHC	1826-0488	03406	LM218H	1826-0634	03406	LM343H
1826-0334	02037	MC1445L	1826-0489	03714	IH5028CPE	1826-0635	02180	OP-07CP
1826-0336	03406	LM13340-1M	1826-0490	03714	IH5032CPE	1826-0636	03285	AD7525KN
1826-0338	03794	AM685HC	1826-0491	02237	UAF355TC	1826-0638	03406	LM360N-8
1826-0342	02237	UA749DHC	1826-0492	03406	DS3630N	1826-0639	03285	AD7524JN
1826-0343	02037	MC1436CG	1826-0493	02037	MLM308AP1	1826-0640	01698	TL061CP
1826-0344	02037	MC790RCP	1826-0495	02037	MC79L12ACG	1826-0641	02180	OP-07EY
1826-0345	02237	UA78M12UC	1826-0496	02037	MC79L05ACG	1826-0642	02037	MC1405L
1826-0346	03406	LM358N	1826-0497	03406	LF311H	1826-0643	01698	TL431CLP
1826-0348	03406	LM377N	1826-0498	01698	SN76549N	1826-0644	03714	HA2-2515-5
1826-0349	02237	UA78M06HL	1826-0499	03406	LH0091CD	1826-0648	03406	LM342P-12
1826-0353	02037	MC78L15ACG	1826-0500	03285	AD536K	1826-0649	01698	UA79M12CKC
1826-0356	03285	AD7530JD	1826-0501	02037	MC14053BCP	1826-0650	03285	AD584KH
1826-0357	03406	LF357H	1826-0502	02037	MC14066BCP	1826-0651	01698	TL500ACN
1826-0358	03406	LF256H, SEL NOISE	1826-0503	03406	LF39AH	1826-0653	01921	CA3240AE
1826-0360	02037	MC3431P	1826-0504	03285	AD7530LD	1826-0655	03406	LM3914N
1826-0364	02037	MC12040P	1826-0505	02037	MC1741NCP1	1826-0657	03285	AD584LH
1826-0365	03799	HA2065-5	1826-0506	01921	CA3140E	1826-0658	01921	CD22100E
1826-0367	02037	MC78M05CG	1826-0507	02037	SZ4266	1826-0659	03794	AM6081PC
1826-0370	03406	LM340K-R	1826-0508	03285	AD561JD	1826-0661	03285	AD590KH
1826-0371	03406	LF256H	1826-0509	02037	MC1658P	1826-0665	03406	LF3478N
1826-0373	03406	LM555CN	1826-0510	03406	LF13332N	1826-0666	03406	LM339AN
1826-0374	02237	9650-1DC	1826-0511	01698	UA79M15CLA	1826-0667	03406	LF351N
1826-0375	03406	LM5700H	1826-0512	02037	MC78M15CG	1826-0668	02037	LF356AG
1826-0377	03406	LM320T-1B	1826-0516	02180	OP-17FJ	1826-0669	02883	DG182HP
1826-0382	02037	MC1355P	1826-0517	03406	ADC0800PCD	1826-0672	03285	AD518KH
1826-0387	03714	ICL 8250 C PE	1826-0519	01698	TL071CP	1826-0673	02237	UA217K
1826-0388	03406	LH0071-1H	1826-0520	01698	TL071BCP	1826-0674	03406	DAC1200HCD
1826-0390	03406	LM3911N	1826-0521	01698	TL072CP	1826-0675	01698	TLR12CN
1826-0391	03714	ICL741C-LN-TY	1826-0522	01698	TL074CN	1826-0676	01590	SL441A
1826-0392	03794	AM301AH	1826-0523	03406	LM337K	1826-0677	03406	LM339K
1826-0393	01698	LM317KC	1826-0524	03406	LM324AN	1826-0678	03406	LM358H
1826-0394	03406	LM78L10ACH	1826-0526	02037	MC3420P	1826-0679	01921	CA3140AT
1826-0396	02237	7815UC	1826-0527	03406	LM337T	1826-0682	03406	LM386N-1
1826-0397	03406	LM220K-5.0	1826-0528	03406	LF356BH	1826-0683	01698	TL062CP
1826-0398	03406	LM271H	1826-0529	02037	MC3410CP	1826-0685	03406	LF351H
1826-0399	02037	MC3340P	1826-0531	02237	UA759T2C	1826-0686	03406	LM351AH
1826-0400	02037	MC1553G	1826-0532	03799	HA1-4605-5	1826-0688	02037	MC7902CT
1826-0401	02883	L144CJ	1826-0533	03406	LM326H	1826-0689	03799	HA2-2535
1826-0402	06545	LAS-1515	1826-0534	01921	CA330AE	1826-0691	06545	L2-0V-20
1826-0403	06545	LAS-1815	1826-0536	03406	LM340AK-5	1826-0692	06545	L2-0V-15
1826-0404	02237	UA7952UC	1826-0537	03406	LM220K-5+2	1826-0693	06545	L2-0V-12
1826-0405	03406	LH0022CH	1826-0538	01698	TL0808CN	1826-0694	06545	L2-0V-5
1826-0408	03714	ICL8212CPA	1826-0539	03406	LM317H	1826-0695	03406	LF11508D
1826-0409	02037	MC1723L	1826-0540	03714	ICL8211CTY	1826-0697	03285	AD7541JN
1826-0410	01698	TL084CN	1826-0542	02180	OP-14CJ	1826-0698	03285	AD590JH
1826-0411	02037	MC14536RCP	1826-0543	02180	OP-07CJ	1826-0699	03285	AD7524AD
1826-0412	03406	LM393N	1826-0545	01698	TL082ACP	1826-0700	03794	HA1-5195-5
1826-0413	03799	HA2-2605-2H	1826-0546	02910	MC592K	1826-0701	02237	UA79M06AH
1826-0414	03406	LH0070-2H	1826-0547	01698	TL072ACP	1826-0702	02910	NE570N
1826-0415	02910	S05000H	1826-0548	03406	LM161J	1826-0704	03406	LF353H
1826-0416	03406	LF13331D	1826-0549	01921	CA3140H	1826-0705	03794	AM6012DC
1826-0417	03406	LF13333D	1826-0550	02237	UA0801EPC	1826-0707	03285	AD7523JN
1826-0418	02237	UA7912UC	1826-0552	01698	TL7805ACK	1826-0708	02180	REF-01CP
1826-0419	03406	LM3909N	1826-0552	03406	LF13741H	1826-0709	03406	LM380N
1826-0420	02037	MC1458SP1	1826-0554	03406	LM340L42-12	1826-0710	03406	ADC0815CCN
1826-0422	03406	LF298H	1826-0555	03406	LM340L47-5	1826-0711	03406	LM725H
1826-0423	03406	LM317K	1826-0556	02037	MC1458NG	1826-0712	03406	LF3533N
1826-0424	02037	MC3405P	1826-0557	03406	LM348J	1826-0713	03285	AD7574JN
1826-0425	03799	HA2-2655-5	1826-0558	03406	LM337H	1826-0714	03799	HA1-4925-5
1826-0426	03794	AM687ADL	1826-0559	03406	LM340K-24	1826-0715	02910	NE5534AN
1826-0428	01698	SG3524J	1826-0565	01698	TL494CN	1826-0716	02910	NE5532AFE
1826-0429	03799	HI1-181RA-5	1826-0567	02037	MLM101A	1826-0717	03406	ADC0804N
1826-0430	03285	AD559KD	1826-0568	03406	LM320H-6	1826-0718	02037	MC1404US
1826-0431	02037	MC14435L	1826-0569	02910	NE5534AT	1826-0719	00350	XR346CJ
1826-0432	03714	ICL 8049 CC PE	1826-0572	01698	TL0844CN	1826-0720	02180	SW-02FQ
1826-0433	03406	LF356BH	1826-0573	03714	ICL8069DCD	1826-0721	03799	HA3-2607-5
1826-0434	03406	LM341P-R.0	1826-0574	02237	UA0714HC	1826-0722	03285	AD565JN/RIN
1826-0435	03406	LM341P-12	1826-0575	02763	9400CJ	1826-0726	02180	SMP-81FY
1826-0436	03406	LM341P-24	1826-0576	02180	OP-16E	1826-0728	03793	SG1552J
1826-0437	02037	MC1495L	1826-0577	02180	DAC-100CC9A	1826-0729	03285	AD7522JN
1826-0438	03406	LM340LAH-12	1826-0578	03794	AM685HL	1826-0730	03285	AD581LH
1826-0439	03406	LH-0053CG	1826-0579	03794	AM686CN	1826-0731	06545	L6-0V-5
1826-0440	02180	OP-01CJ	1826-0580	03406	LF134-1CJ	1826-0732	06545	L6-0V-5
1826-0441	02237	UA796GUC	1826-0581	03406	LF1350RD	1826-0733	03406	ADC0803LCD
1826-0442	03714	IH5027CPE	1826-0582	03406	LF13201D	1826-0734	03406	LF3538N
1826-0443	02237	UA786KC	1826-0583	02237	UA79M6HC	1826-0735	03799	HA3-2507-5
1826-0444	02237	UA796KC	1826-0584	02237	UA78M6HC	1826-0736	03799	HA3-2627-5
1								

HP P/N	Mfr.	Desc.	1858-0045	01921	CA3018A	66P5L-1	02037	1818-0108
1826-0746	03714	ICL7109CPL	1858-0046	01921	CA3097E	675276J	04092	1820-2521
1826-0747	03406	LM2509CN	1858-0047	02634	ULN-2003A	7024K	02237	1820-0051
1826-0748	03406	LM250K STEEL	1858-0048	01921	CA3082E	709AHM	02237	1820-0117
1826-0750	03406	ADC08041CN	1858-0052	02037	SPQ167B	719HM	02237	1820-0194
1826-0751	03406	DAC1202HCD	1858-0055	02037	MPQ2369	715HC	02237	1820-0225
1826-0752	03285	AD7542BD	1858-0057	01921	CA3082F	715HC	02237	1820-0476
1826-0753	02037	MC34004BL	1858-0058	02037	MPQ3906	716Z	02838	1813-0133
1826-0754	06545	LA51915	1858-0061	02634	ULN-2004A	723HF	03763	1826-0177
1826-0755	02910	NE527N	1858-0062	02037	MPQ3762	723HF	02237	1826-0010
1826-0756	03406	ADC08041CN	1858-0063	01921	CA3102E	723PC	02237	1820-0439
1826-0757	01698	TL170CLP	1858-0064	01921	CA3045H	727HL	02237	1820-0408
1826-0759	02037	LM339J	1858-0065	02634	ULN-2815A-2	733HC	02237	1820-0270
1826-0760	03406	LM335AZ	1858-0066	03714	IH401A	7411PC	02237	1820-1066
1826-0761	03714	ICL7605CJN	1858-0067	02634	ULN-2033A	74123N	02910	1820-1585
1826-0762	03406	LM261H	1858-0069	02634	ULN-2803A	74164PC	02237	1820-0294
1826-0763	03406	LM237K	1858-0071	02037	MPQ3798	742PC	02237	1826-0164
1826-0764	03285	AD590KF	1858-0072	02634	ULN-2413A	74F00PC	02237	1820-2684
1826-0765	03714	ICL76118MTY	1858-0073	02634	ULN-2405A	74F02PC	02237	1820-2685
1826-0766	03406	LM236H	1858-0074	02037	MPQ6100	74F04PC	02237	1820-2506
1826-0767	05436	3528AM	1858-0075	02037	MPQ63546	74F08PC	02237	1820-2686
1826-0768	01921	CA258AT	1858-0076	02037	MPQ2907P	74F109PC	02237	1820-2693
1826-0769	02883	DG3038P	1858-0077	02037	MPQ2222P	74F10PC	02237	1820-2687
1826-0770	01698	TL022CP	1902-0908	03406	LM399H	74F112PC	02237	1820-2694
1826-0772	02037	LM317LZ	1902-0928	03406	LM329	74F11PC	02237	1820-2688
1826-0773	03406	LM10CH				74F157PC	02237	1820-2654
1826-0774	03406	LM3858J				74F158PC	02237	1820-2695
1826-0776	02883	DG302CJ				74F175PC	02237	1820-2696
1826-0777	02883	DG303CJ				74F194PC	02237	1820-2697
1826-0778	02883	DG300CJ				74F20PC	02237	1820-2689
1826-0779	03285	AD7502JN				74F241PC	02237	1820-2699
1826-0780	01921	CA305A				74F32PC	02237	1820-2690
1826-0781	08659	TDC1014J				74F373PC	02237	1820-2700
1826-0783	03550	XR5534ACN				74F374PC	02237	1820-2701
1826-0784	06545	LA51912				74F64PC	02237	1820-2676
1826-0785	01698	TL072ACJG				74F74PC	02237	1820-2691
1826-0786	01698	TL064CN				74F86PC	02237	1820-2692
1826-0790	03714	IHS020CPA				74L504N	02910	1820-2195
1826-0791	03406	LF398H				74L5194N	02910	1820-2053
1826-0792	03799	HA1-4905-5				74L5174PC	02237	1820-1700
1826-0793	02237	UA79H08AH				74L5175PC	02237	1820-1699
1826-0794	01921	CA3240E				74L5260PC	02237	1820-1905
1826-0798	02910	NE501HF				74L5393PC	02237	1820-1989
1826-0801	02037	LF255N				74S1090C	02237	1820-1372
1826-0802	03406	LM129AH				7516	08661	1813-0168
1826-0806	02910	NE5563N				751N	03285	1813-0044
1826-0810	01921	CA329DE				75492PC	02237	1820-1670
1826-0811	02180	SM-01FG				7805UC	02237	1826-0122
1826-0812	03406	LM103H-2.0				7806KC	02237	1826-0160
1826-0813	01921	CA258AG				7812KC	02237	1826-0117
1826-0814	01921	CA258AE				7812UC	02237	1826-0099
1826-0819	06545	LA515A15				7815KC	02237	1826-0203
1826-0820	06545	LA518A15				7815UC	02237	1826-0396
1826-0821	03285	AD751201JN				78H15CU	02910	1826-0617
1826-0822	03285	AD542KH				78L12AH	02237	1826-0333
1826-0823	09161	MT8865AE				78M12HC	02237	1826-0226
1826-0824	09161	MT8860AE				79MGT2C	02237	1826-0305
1826-0825	03406	LM3994E				8007C	03714	1826-0121
1826-0826	03406	LH0070-1H				825100N	02910	1820-2457
1826-0828	02180	OP-155J				825103N	02910	1820-2494
1826-0829	02237	UA7915AUC				82541A	02910	1820-1862
1826-0830	05285	AD590LH				8702CC	02763	1826-0621
1826-0832	03794	AM6080PC				8705CJ	02763	1826-0593
1826-0833	02237	UA7590UC				8720	02290	1820-1048
1826-0837	03406	LM238K (STEEL)				873AN	02910	1820-1875
1826-0838	03285	AD7533JN				8798R	02910	1820-1863
1826-0839	03285	AD566JN				90020C	02237	1820-0127
1826-0840	03285	AD583				90030C	02237	1820-0129
1826-0841	09274	MA-332-CP				90040C	02237	1820-0130
1826-0842	03406	LM2917N				90070C	02237	1820-0131
1826-0843	02237	UAF772HC				90150C	02237	1820-0745
1826-0845	02180	OP-07EJ				90160C	02237	1820-0132
1826-0846	03406	LF1333ZC				90300C	02237	1820-0612
1826-0847	02180	REF-02HP				91120C	02237	1820-0516
1826-0849	02180	MUX-88FG				911HC	02237	1820-0081
1826-0850	02883	DG211CJ				9254C	02237	1820-0052
1826-0851	03714	ICL7660CPA				9300PC	02237	1820-0134
1826-0853	02180	REF-01HJ				9300PC	02237	1820-0357
1826-0854	01921	CA3162E				9305PC	02237	1820-0898
1826-0855	03406	LM236AH				9313PC	02237	1820-1063
1826-0856	03794	AM6080APC				9316PC	02237	1820-0231
1826-0857	03285	AD7522LN				9318PC	02237	1820-0657
1826-0858	03285	AD558JN				9319PC	02237	1820-2414
1826-0859	01698	TL376CNE				931HC	02237	1820-0313
1826-0860	03799	HE1-5624-5				9321PC	02237	1820-0727
1826-0861	03285	AD7533LN				9327PC	02237	1820-0616
1826-0863	03406	LM1877N-9				9324PC	02237	1820-0706
1826-0864	02180	DAC-87EX (RELAXED)				9328PC	02237	1820-0741
1826-0865	03285	AD7541KN				9334PC	02237	1820-0833
1826-0866	02037	MC1458SG				934100C	02237	1820-0988
1826-0867	03793	SG3547N				934150C	02237	1816-0914
1826-0868	02634	UT-309				93415PC	02237	1816-1015
1826-0869	03794	AM686CN				934220C	02237	1816-1334
1826-0870	03406	LM337HVX				934480C	02237	1816-0993
1826-0872	03406	LM1524				9348PC	02237	1820-0737
1826-0873	00350	XR-2209CN				9356PC	02237	1820-1347
1826-0876	02763	ICL7107CPL				9368PC	02237	1820-1903
1826-0877	03285	AD7574KN				9369PC	02237	1820-1979
1826-0878	03285	AD7503JN				9370PC	02237	1820-2002
1826-0879	02883	DG3018A				9374PC	02237	1820-1361
1826-0880	03406	LM335Z				93L00PC	02237	1820-0659
1826-0881	04114	ADC-856C				93L01PC	02237	1820-0627
1826-0882	01698	TL082CP				93L08PC	02237	1820-0614
1858-0004	01921	CA3049				93L09PC	02237	1820-0708
1858-0008	02037	MPQ6901				93L100M	02237	1820-1376
1858-0009	02037	MPQ2221				93L10PC	02237	1820-0669
1858-0010	02037	MPQ2906				93L10PC	02237	1820-1752
1858-0020	02237	MPQ401PC				93L11PC	02237	1820-0702
1858-0021	01921	CA3083				93L12PC	02237	1820-0658
1858-0022	03793	SG3821N				93L140M	02237	1820-1377
1858-0023	01921	CA3081E				93L14PC	02237	1820-0701
1858-0032	01921	CA3146E				93L16PC	02237	1820-0778
1858-0034	02037	MPQ3725				93L18PC	02237	1820-0987
1858-0036	03285	AD821 (SPEC)				93L21PC	02237	1820-1017
1858-0037	02634	ULN2082A						
1858-0040	01921	CA3127E						
		Desc.			Mfr.			
		100000C			02237	1820-2398		
		1001010C			02237	1820-2611		
		1001011C			02237	1820-2390		
		1001020C			02237	1820-2614		
		1001022						

Desc.	Mfr.	HP P/N						
93L22PC	02237	1820-0710	A07524AD	03285	1826-0699	CA145RT	01921	1826-0111
93L24PC	02237	1820-0904	A07524JN	03285	1826-0639	CA219AE	01921	1826-0814
93L28PC	02237	1820-0709	A07525KN	03285	1826-0636	CA258AG	01921	1826-0813
93L34PC	02237	1820-1358	A07530JD	03285	1826-0356	CA258AT	01921	1826-0768
93L40DC	02237	1820-1111	A07530JN	03285	1820-1789	CA3000	01921	1820-0297
93L412PC	02237	1816-1309	A07530LD	03285	1826-0504	CA3002	01921	1820-0417
93L415PC	02237	1816-0723	A07530LN	03285	1826-0485	CA3004	01921	1826-0087
93L422PC	02237	1816-1308	A07533JN	03285	1826-0838	CA3005	01921	1820-0046
93510DC	02237	1820-1373	A07533LN	03285	1826-0861	CA3010	01921	1820-0647
935120C	02237	1820-1290	A07541JN	03285	1826-0697	CA3012	01921	1820-0474
935160C	02237	1820-1475	A07541KN	03285	1826-0865	CA3018	01921	1820-0352
9400CJ	02763	1826-0575	A07542BD	03285	1826-0752	CA3018A	01921	1858-0045
9401PC	02237	1820-2016	A07550BD	03285	1820-1995	CA301AT	01921	1820-0223
9403PC	02237	1816-0934	A07574JN	03285	1826-0713	CA3020	01921	1820-0299
95003DC	02237	1820-2242	A07574KN	03285	1826-0877	CA3023	01921	1820-0433
95040C	02237	1820-1222	A0821(SPEC)	03285	1858-0036	CA3026	01921	1820-0240
951020C	02237	1820-2321	A0C-956C	04114	1826-0881	CA3028A	01921	1820-0306
9520C	02237	1820-0952	A0C0800PCD	03406	1826-0517	CA3028R	01921	1820-0137
9520C	02237	1820-0972	A0C0800LCD	03406	1826-0750	CA3029	01921	1820-0326
9537C	02237	1820-0953	A0C0803LCD	03406	1826-0733	CA3030	01921	1826-0078
9530C	02237	1820-0973	A0C0804LCN	03406	1826-0756	CA3045	01921	1821-0002
9540C	02237	1820-0954	A0C0804N	03406	1826-0717	CA3045H	01921	1858-0064
9550C	02237	1820-0955	A0C0816CCN	03406	1826-0710	CA3046	01921	1821-0001
9560C	02237	1820-0956	A0C0804G-12	05436	1813-0098	CA3049	01921	1858-0004
9560C	02237	1820-0974	AF134-1CJ	03406	1826-0580	CA3051	01921	1820-0249
9570C	02237	1820-0957	AH0019CD	03406	1820-1588	CA3053	01921	1826-0230
9590C	02237	1820-0110	AH0134CD	03406	1820-1370	CA3054	01921	1826-0780
9590DC	02237	1820-1009	AH0152CD	03406	1820-1371	CA3059	01921	1826-0041
9600DC	02237	1820-0875	AH0154D	03406	1813-0054	CA3060D	01921	1826-0015
9600C	02237	1820-0309	AHS024CN	03406	1820-1353	CA3075	01921	1826-0153
9612TC	02237	1820-2089	AM1101A	03794	1820-1006	CA3079	01921	1826-0075
9613TC	02237	1820-2088	AM1702AHD	03794	1818-0289	CA307T	01921	1826-0943
9616PC	02237	1820-2094	AM2502PC	03794	1820-2168	CA3080	01921	1826-0185
9621DC	02237	1820-1044	AM2505PC	03794	1820-1398	CA3080E	01921	1826-0534
9624DC	02237	1820-1005	AM25L04PC	03794	1820-1978	CA3081E	01921	1858-0023
9627PC	02237	1820-2095	AM25L07PC	03794	1820-1866	CA3082E	01921	1858-0048
9636ATC	02237	1820-2117	AM25L08PC	03794	1820-1865	CA3082F	01921	1858-0057
9637ATC	02237	1820-2198	AM25L089PC	03794	1820-1867	CA3083	01921	1858-0021
9638TC	02237	1820-2199	AM25LS14DC	03794	1820-2120	CA3085	01921	1826-0292
9644TC	02237	1820-2365	AM25LS160APC	03794	1820-1992	CA3094AT	01921	1826-0167
9640C	02237	1820-0964	AM25LS161APC	03794	1820-2445	CA3097E	01921	1858-0046
9650-1DC	02237	1826-0374	AM25LS2518PC	03794	1820-2190	CA3099C	01921	1826-0321
9650C	02237	1820-0965	AM25LS2520DC	03794	1820-2405	CA3100T	01921	1826-0218
9660C	02237	1820-0966	AM25LS2521PC	03794	1820-2311	CA3102E	01921	1858-0063
9670C	02237	1820-0967	AM25LS2538PC	03794	1820-2465	CA3102E	01921	1858-0049
9670C	02237	1820-0975	AM25LS2539PC	03794	1820-2262	CA3130AS	01921	1826-0626
9680C	02237	1820-0968	AM25LS2569DC	03794	1820-2270	CA3130T	01921	1826-0207
96L02DC	02237	1820-0730	AM25LS2569PC	03794	1820-2653	CA3140AT	01921	1826-0649
96LS02PC	02237	1820-2600	AM25507DC	03794	1820-2454	CA3140E	01921	1826-0549
96S02PC	02237	1820-2118	AM25508PC	03794	1820-2375	CA3140H	01921	1826-0465
9710C	02237	1820-0711	AM25509PC	03794	1820-1981	CA3140T	01921	1858-0032
98060C	02237	1820-0520	AM25510PC	03794	1820-2458	CA3161E	01921	1820-2654
98160C	02237	1820-0485	AM25518PC	03794	1820-2459	CA3162E	01921	1826-0854
98220C	02237	1820-0519	AM26LS32PC	03794	1820-2203	CA3240AE	01921	1826-0653
98340C	02237	1820-0486	AM26S02PC	03794	1820-1782	CA3240E	01921	1826-0794
98380C	02237	1820-0482	AM27507APC	03794	1816-1495	CA3290E	01921	1826-0810
98420C	02237	1820-0488	AM27527DC	03794	1816-1406	CA741CT	01921	1820-0203
98520C	02237	1820-0187	AM2803HC	03794	1820-1579	CA741G	01921	1826-3003
98530C	02237	1820-0518	AM2813ADC	03794	1818-0277	C022100E	01921	1826-0658
98560C	02237	1820-0186	AM29018DC	03794	1820-2556	C04000AE	01921	1820-0942
98650C	02237	1820-0517	AM29018PC	03794	1820-2667	C04000BF	01921	1820-2227
9L24DC	02237	1820-1085	AM29030C	03794	1820-2377	C04001AF	01921	1820-1534
9L86PC	02237	1820-1117	AM2909PC	03794	1820-2442	C04001UH	01921	1820-0946
9LS192PC	02237	1820-1684	AM2910DC	03794	1820-2378	C04002AF	01921	1820-1537
9541PC	02237	1820-1927	AM301AH	03794	1826-0392	C04002UH	01921	1820-0948
A-4350	03780	1826-0247	AM3110LPC	03794	1816-0913	C04006AF	01921	1820-0962
AC5947N	01698	1820-2626	AM3705DC	03406	1820-1357	C04006BE	01921	1820-2086
AC5947NF	01698	1820-2259	AM6012DC	03794	1826-0705	C04007AE	01921	1820-0578
AC5948N	01698	1820-2567	AM6080APC	03794	1826-0856	C04008AF	01921	1820-0526
AD503K(SEL)	03285	1826-0074	AM6080PC	03794	1826-0832	C04008BE	01921	1820-1955
AD504J	03285	1826-0249	AM6081PC	03794	1826-0659	C04009AF	01921	1820-0979
AD506JH	03285	1826-0176	AM645HL	03794	1826-0578	C040105BF	01921	1820-2241
AD514K	03285	1826-0251	AM646CN	03794	1826-0579	C04010AF	01921	1820-0980
AD518J	03285	1826-0309	AM646CN	03794	1826-0869	C040116E	01921	1820-2662
AD518KH	03285	1826-0672	AM646HC	03794	1826-0238	C04011UH	01921	1820-1538
AD518KH(SEL)	03285	1826-0327	AM687ADL	03794	1826-0426	C04011UH	01921	1820-0949
AD522A(SEL)	03285	1826-0595	AM74LS138N	03794	1820-1732	C04012AF	01921	1820-1539
AD522BD	03285	1813-0142	AM74LS175N	03794	1820-1733	C04012UB	01921	1820-0950
AD532JD	03285	1826-0263	AM74LS244N	03794	1820-2160	C04013AF	01921	1820-1531
AD533JH	03285	1826-0295	AM74S160N	03794	1820-1877	C04013RAE	01921	1820-1563
AD536K	03285	1826-0500	AM74S161N	03794	1820-1876	C04013BE	01921	1820-0939
AD540J	03285	1826-0182	AM74S244N	03794	1820-2565	C04014AF	01921	1820-0950
AD542KH	03285	1826-0822	AM74S533PC	03794	1820-2527	C04014HE	01921	1820-1541
AD542L	03285	1826-0627	AM74S534PC	03794	1820-2526	C04015AF	01921	1820-0976
AD558JD	03285	1826-0858	AM8224-4PC	03794	1820-2039	C04015AE	01921	1820-0981
AD559KD	03285	1826-0430	AM8279PC	03794	1820-2360	C04015BE	01921	1820-1675
AD561JD	03285	1826-0508	AM9080A-2DC	03794	1820-1701	C04016AE	01921	1820-1958
AD561KD	03285	1820-1984	AM9080A-4DC	03794	1820-2006	C04016AF	01921	1820-0933
AD562JD/BIN	03285	1820-1838	AM9101DPC	03794	1818-0343	C04016BE	01921	1820-1666
AD562KD/BIN	03285	1826-0308	AM9102APC	03794	1818-0238	C04017AF	01921	1820-1659
AD565JN/BIN	03285	1826-0726	AM91029PC	03794	1818-0335	C040181BY	01921	1820-0934
AD566JN	03285	1826-0839	AM9112APC	03794	1818-0199	C040182BY	01921	1820-1459
AD581J	03285	1826-0742	AM9124RDC	03794	1818-0913	C04018AF	01921	1820-0934
AD581LH	03285	1826-0730	AM9130DC	03794	1818-0289	C04018AF	01921	1820-1529
AD583	03285	1826-0840	AM9131COC	03794	1818-0360	C04018BE	01921	1820-2084
AD584KH	03285	1826-0650	AM9131L180C	03794	1818-0197	C04019AF	01921	1820-1553
AD584LH	03285	1826-0657	AM91L12APC	03794	1818-0322	C04019BE	01921	1820-0951
AD590JH	03285	1826-0698	AM91L12CPC	03794	1818-0294	C04020BE	01921	1820-0935
AD590KH	03285	1826-0764	AM91L30EDC	03794	1818-0313	C04021AF	01921	1820-2631
AD590LH	03285	1826-0661	AM93A4APC	03794	1820-1968	C04021BE	01921	1820-1898
AD590LH(SEL)	03285	1826-0830	AM9511DC	03794	1820-2340	C04021BF	01921	1820-0929
AD741KH(SEL)	03285	1826-0090	AM9513CC	03794	1820-2604	C04022BE	01921	1820-1552
AD741LH	03285	1826-0082	AM9513PC	03794	1820-2705	C04023HF	01921	1820-0943
AD7502JN	03285	1826-0779	AMZ8001-1DC	03794	1820-2638	C04023UB	01921	1820-0936
AD7503JN	03285	1826-0878	AMZ8002-10C	03794	1820-2637	C04024BF	01921	1820-1897
AD7506KD	03285	1826-0602	AMZ8002DC	03794	1820-2553	C04025AF	01921	1820-1535
AD7510DIJN	03285	1820-1374	ATF431	03334	1826-0469	C04025UB	01921	1820-0944
AD7512DIJN	03285	1826-0821	C2101-1	03794	1818-0318	C04026AE	01921	1820-1530
AD7520JN	03285	1826-0252	C2107H	03811	1818-0128	C04027AF	01921	1820-0938
AD7520LN	03285	1826-0264	C2401	03794	1820-1062	C04027BE	01921	1820-1964
AD7522JN	03285	1826-0729	C2716</					

Desc.	Mfr.	HP P/N						
CD4029BF	01921	1820-1529	D2125H-2	03811	1818-1460	DW8556BJ	03406	1820-1985
CD4030AL	01921	1820-0947	D2141-1	03811	1818-1215	DW8678CAB/N	03406	1816-1339
CD4030AF	01921	1820-1536	D2147H-1	03811	1818-1586	DW86L75N	03406	1820-0986
CD4031AE	01921	1820-0963	D2147H-3	03811	1818-1027	DW86L76N	03406	1820-1057
CD4031BF	01921	1820-2231	D2148H-3	03811	1818-1212	DW86L79N	03406	1820-1394
CD4032AE	01921	1820-0925	D2148HL	03811	1818-1468	DW8659N	03406	1820-1587
CD4033AE	01921	1820-0932	D2708	03811	1818-0250	DW8844N	03406	1820-1738
CD4034AE	01921	1820-0977	D2716-2	03811	1818-2702	DW8844N	03406	1820-2574
CD4035AF	01921	1820-0969	D2732	03811	1818-0850	DW8844N	03406	1820-2573
CD4036AD	01921	1820-0959	D2732-6	03811	1818-1254	DW8844N	03406	1820-2575
CD4037AE	01921	1820-0945	D2732A	03811	1818-1648	DW8844N	03406	1820-2077
CD4038AE	01921	1820-0924	D2732A	03811	1818-1721	DW8844N	03406	1820-2339
CD4039AD	01921	1820-0960	D2732A-5	03811	1818-1633	DW8844N	03406	1820-2071
CD4040AF	01921	1820-1925	D275A	03811	1818-1062	DW8844N	03406	1820-2183
CD4040BF	01921	1820-0937	D276A	03811	1818-1722	DW8844N	03406	1820-1865
CD4041AE	01921	1820-0928	D276A	03811	1820-2076	DW8844N	03406	1820-2103
CD4041UBF	01921	1820-2225	D276A	03811	1816-0919	DW8844N	03406	1820-1795
CD4042AF	01921	1820-0958	D276A	03811	1820-2071	DW8844N	03406	1820-2041
CD4042AF	01921	1820-1540	D276A	03811	1820-2070	DW8844N	03406	1820-0492
CD4042BE	01921	1820-1956	D276A	03811	1820-1221	DW8844N	03406	1820-2174
CD4043AE	01921	1820-0941	D276A	03811	1820-1613	DW8844N	03406	1820-2290
CD4043AF	01921	1820-1533	D276A	03811	1820-2596	DW8844N	03406	1820-2234
CD4043BE	01921	1820-2124	D276A	03811	1820-2620	DW8844N	03406	1820-1621
CD4044AE	01921	1820-0940	D276A	03811	1820-2289	DW8844N	03406	1820-0721
CD4044AF	01921	1820-1532	D276A	03811	1820-2109	DW8844N	03406	1820-1115
CD4045AE	01921	1820-1318	D276A	03811	1820-2601	DW8844N	03406	1820-0780
CD4045BF	01921	1820-2226	D276A	03811	1820-2191	DW8844N	03406	1820-1845
CD4046AF	01921	1820-1188	D276A	03811	1820-2150	DW8844N	03406	1820-2161
CD4047AE	01921	1820-1317	D276A	03811	1820-2150	DW8844N	03406	1820-1870
CD4047BF	01921	1820-2230	D276A	03811	1820-2598	DW8844N	03406	1820-1740
CD4048AE	01921	1820-1316	D276A	03811	1820-2597	DW8844N	03406	1820-2363
CD4049AF	01921	1820-1542	D276A	03811	1820-2357	DW8844N	03406	1820-2138
CD4049UBF	01921	1820-1145	D276A	03811	1820-2441	DW8844N	03406	1820-1739
CD4050AF	01921	1820-1543	D276A	03811	1820-2278	DW8844N	03406	1820-2417
CD4050BE	01921	1820-1146	D276A	03811	1820-0020	DW8844N	03406	1820-2136
CD4050BE	01921	1820-1976	D276A	03811	1826-0453	DW8844N	03406	1820-2093
CD4050BE	01921	1820-2644	D276A	03811	1826-0127	DW8844N	03406	1816-1469
CD4051BE	01921	1820-1315	D276A	03811	1826-0197	DW8844N	03406	1820-2359
CD4051BF	01921	1820-1513	D276A	03811	1826-0577	DW8844N	03406	1820-1788
CD4052BE	01921	1820-1314	D276A	03811	1826-0864	DW8844N	03406	1820-2106
CD4053BE	01921	1820-1313	D276A	03811	1826-0864	DW8844N	03406	1820-2315
CD4053BF	01921	1820-1510	D276A	03811	1826-0674	DW8844N	03406	1820-2114
CD4053BY	01921	1820-1545	D276A	03811	1826-0751	DW8844N	03406	1820-2456
CD4054BE	01921	1820-1331	D276A	03811	0960-0632	DW8844N	03406	1820-2329
CD4055BE	01921	1820-1646	D276A	03811	0960-0631	DW8844N	03406	1820-2522
CD4056BE	01921	1820-2487	D276A	03811	1813-0036	DW8844N	03406	1826-0270
CD4059AD	01921	1820-1649	D276A	03811	1813-0105	DW8844N	03406	1826-0532
CD4060AE	01921	1820-1667	D276A	03811	1826-0105	DW8844N	03406	1826-0792
CD4060BE	01921	1820-2588	D276A	03811	1826-0669	DW8844N	03406	1826-0714
CD4066AE	01921	1820-1325	D276A	03811	1826-0124	DW8844N	03406	1826-0700
CD4066AY	01921	1820-1548	D276A	03811	1820-1807	DW8844N	03406	1826-0644
CD4067BF	01921	1820-1660	D276A	03811	1826-0154	DW8844N	03406	1826-0482
CD4067BF	01921	1820-2221	D276A	03811	1826-0606	DW8844N	03406	1826-0689
CD4068BF	01921	1820-1410	D276A	03811	1826-0154	DW8844N	03406	1826-0413
CD4068BF	01921	1820-2330	D276A	03811	1826-0606	DW8844N	03406	1826-0109
CD4069UBF	01921	1820-1404	D276A	03811	1820-1840	DW8844N	03406	1826-0425
CD4070BE	01921	1820-1601	D276A	03811	1820-1971	DW8844N	03406	1826-0365
CD4071BE	01921	1820-1443	D276A	03811	1826-0850	DW8844N	03406	1826-0735
CD4071BF	01921	1820-1550	D276A	03811	1826-0778	DW8844N	03406	1826-0721
CD4072BE	01921	1820-1403	D276A	03811	1826-0879	DW8844N	03406	1826-0326
CD4073BE	01921	1820-1408	D276A	03811	1826-0776	DW8844N	03406	1826-0429
CD4075BE	01921	1820-1405	D276A	03811	1826-0769	DW8844N	03406	1826-0860
CD4076BE	01921	1820-1578	D276A	03811	1826-0777	DW8844N	03406	1820-1781
CD4076BF	01921	1820-1544	D276A	03811	1820-1841	DW8844N	03406	1818-0497
CD4077BE	01921	1820-1672	D276A	03811	1826-0605	DW8844N	03406	1818-1370
CD4078BE	01921	1820-1407	D276A	03811	1820-1725	DW8844N	03406	1818-0590
CD4078BF	01921	1820-2231	D276A	03811	1813-0160	DW8844N	03406	1818-0439
CD4081BE	01921	1820-1486	D276A	03811	1820-1797	DW8844N	03406	1816-1616
CD4081BE	01921	1820-1488	D276A	03811	1816-1460	DW8844N	03406	1816-1152
CD4081BF	01921	1820-1551	D276A	03811	1820-1720	DW8844N	03406	1816-1429
CD4082BE	01921	1820-1409	D276A	03811	1820-1043	DW8844N	03406	1816-0987
CD4085BF	01921	1820-2017	D276A	03811	1820-1518	DW8844N	03406	1816-1481
CD4086BF	01921	1820-2018	D276A	03811	1820-0602	DW8844N	03406	1816-1459
CD4089AC	01921	1820-1661	D276A	03811	1820-1047	DW8844N	03406	1818-0989
CD4093BF	01921	1820-1600	D276A	03811	1820-0593	DW8844N	03406	1818-0955
CD4093BF	01921	1820-1577	D276A	03811	1820-0594	DW8844N	03406	1816-1282
CD4094BE	01921	1820-1662	D276A	03811	1820-0595	DW8844N	03406	1816-1467
CD4094BF	01921	1820-2222	D276A	03811	1820-0596	DW8844N	03406	1818-1628
CD4095BE	01921	1820-1663	D276A	03811	1820-0597	DW8844N	03406	1818-1559
CD4096BF	01921	1820-1664	D276A	03811	1820-0603	DW8844N	03406	1818-1611
CD4097BE	01921	1820-2209	D276A	03811	1820-0600	DW8844N	03406	1818-1667
CD4097BF	01921	1820-1881	D276A	03811	1820-0601	DW8844N	03406	1818-1596
CD4098BE	01921	1820-1650	D276A	03811	1820-0599	DW8844N	03406	1816-0409
CD4099BE	01921	1820-1665	D276A	03811	1820-1885	DW8844N	03406	1816-1056
CD4099BF	01921	1820-2233	D276A	03811	1816-1089	DW8844N	03406	1816-0015
CD4508BE	01921	1820-1959	D276A	03811	1820-1148	DW8844N	03406	1813-0167
CD4511BE	01921	1820-1413	D276A	03811	1820-0846	DW8844N	03406	1813-0148
CD4511BF	01921	1820-1957	D276A	03811	1820-1254	DW8844N	03406	1813-0189
CD4512BE	01921	1820-1241	D276A	03811	1820-2098	DW8844N	03406	1813-0199
CD4512BF	01921	1820-2229	D276A	03811	1820-1295	DW8844N	03406	1826-0455
CD4514BE	01921	1820-1683	D276A	03811	1820-1294	DW8844N	03406	1826-0432
CD4516BF	01921	1820-1899	D276A	03811	1820-1293	DW8844N	03406	1826-0387
CD4520BF	01921	1820-1900	D276A	03811	1820-2353	DW8844N	03406	1820-2025
CD4555BE	01921	1820-1516	D276A	03811	1820-1131	DW8844N	03406	1826-0876
CD4555BF	01921	1820-1556	D276A	03811	1820-1167	DW8844N	03406	1826-0746
CD4556BE	01921	1820-1515	D276A	03811	1820-1794	DW8844N	03406	1826-0391
CD4556BF	01921	1820-1555	D276A	03811	1820-1872	DW8844N	03406	1826-0761
CDR125BK	02569	1826-0152	D276A	03811	1820-1759	DW8844N	03406	1826-0765
CG725Y MASKED	02910	1818-0036	D276A	03811	1820-1873	DW8844N	03406	1826-0851
CMP-01-CJ	02180	1826-0116	D276A	03811	1820-0623	DW8844N	03406	1826-0129
CO-233ME-40.0MHZ	03444	1813-0161	D276A	03811	1820-0906	DW8844N	03406	1826-0131
CO-233ME-8.0MHZ	03444	1813-0163	D276A	03811	1820-0505	DW8844N	03406	1826-0446
CO-233ME-80.0MHZ	03444	1813-0162	D276A	03811	1820-1292	DW8844N	03406	1826-0773
CRT5027P	01425	1820-2627	D276A	03811	1820-1468	DW8844N	03406	1826-0540
D139BP	02883	1820-2345	D276A	03811	1820-1143	DW8844N	03406	1826-0108
D2115A	03811	1818-0772	D276A	03811	1820-1291	DW8844N	03406	1813-0450
D2115AL	03811	1818-0332	D276A	03811	1820-1857	DW8844N	03406	1820-2132
D2118-4 (SELECTED)	03811	1818-1424	D276A	03811	1820-1874	DW8844N	03406	1820-2647
D2118-7 (SELECTED)	03811	1818-1425	D276A	03811	1820-0262	DW8844N	03406	1820-2466
D2125AL	03811	1818-1026	D276A	03811	1820-1166	DW8844N	03406	1820-2466
D2125H-1	03811	1818-1663	D276A	03811	1820-1472	DW8844N	03406	1820-2528
			D2125H-2	03811	1820-1349	DW8844N	03406	1820-2422
			D2141-1					
			D214					

Desc.	Mfr.	HP P/N	LF3568N	03406	1826-0433	LM338K	03406	1826-0677
IDM2901ADC	03406	1820-2238	LF3566	02037	1826-0319	LM339AJ	03406	1826-0306
IDM2911ANC	03406	1820-2523	LF357H	03406	1826-0257	LM339AN	03406	1826-0666
IH401A	03714	1858-0066	LF398H	03406	1826-0503	LM339J	02037	1826-0759
IHS010CPD	03714	1813-0034	LF398N	03406	1826-0791	LM339N	1698	1826-0138
IHS012CPE	03714	1826-0193	LH-0053CG	03406	1826-0439	LM340AK-5	03406	1826-0536
IHS01ACPA	02569	1820-1235	LH0002CH	03406	1820-0224	LM340AT-15	03406	1826-0607
IHS020CPA	03714	1826-0790	LH0021CK	03406	1813-0058	LM340K-24	03406	1826-0559
IHS027CPE	03714	1826-0442	LH0022CH	03406	1826-0405	LM340K-R	03406	1826-0370
IHS02ACPE	03714	1826-0489	LH0024CH	03406	1813-0057	LM340LAH-12	03406	1826-0438
IHS032CPE	03714	1826-0490	LH0033CG	03406	1826-0481	LM340LAZ-12	03406	1826-0554
IHS035CPA	02569	1820-1234	LH0042CD	03406	1826-0459	LM340LAZ-5	03406	1826-0555
IHS043CDE	03714	1826-0740	LH0044CH	03406	1813-0041	LM341P-12	03406	1826-0435
IMS013ACDD	03714	1820-1363	LM0044ACH	03406	1826-0472	LM341P-24	03406	1826-0436
IMS013COD	03714	1820-0781	LH0044CH	03406	1826-0594	LM341P-R.0	03406	1826-0434
IMS600CPE PROGRAMMED	03714	1816-0053	LH0062CD	03406	1826-0267	LM342P-12	03406	1826-0648
IMS610CPE	03714	1816-0217	LH0062CH	03406	1826-0108	LM343D	03406	1826-0632
IMS623CPE	03714	1816-1433	LH0070-1H	03406	1826-0316	LM343H	03406	1826-0634
IM6402-LIPL	03714	1820-2204	LH0070-1H	03406	1826-0826	LM348J	03406	1826-0557
IM6402CDL	03714	1820-2087	LH0070-2H	03406	1826-0414	LM348N	03406	1826-0315
IM6508IDE	03714	1818-0390	LH0071-1H	03406	1826-0288	LP350K	03406	1826-0631
IM65X61-CJN	03714	1818-1009	LH0091CD	03406	1826-0499	LM355-1H	03406	1826-0314
IM6653IUG	03714	1818-1520	LM103H-2.0	03406	1826-0812	LM358AH	03406	1826-0592
IM6654-IJG	03714	1818-1351	LM10CH	03406	1826-0773	LM358H	03406	1826-0678
IM7512CPE	03714	1818-0107	LM113-2H	03406	1826-0229	LM358N	03406	1826-0246
IMD2911ANC	03406	1820-2260	LM129AH	03406	1826-0802	LM360N-R	03406	1826-0638
INSR250N	03406	1820-2443	LM13340-1N	03406	1826-0336	LM361H	03406	1826-0272
K1091A-10.0MHZ	03795	1813-0047	LM1524	03406	1826-0272	LM361N	03406	1826-0210
K1091A-10.485760MHZ	03795	1813-0043	LM161J	03406	1826-0548	LM370N	03406	1826-0245
K1091A-5.0MHZ	03795	1813-0045	LM1677N-9	03406	1826-0863	LM371H	03406	1826-0104
K1091A-6.9120MHZ	03795	1813-0053	LM201AL	1698	1826-0059	LM377N	03406	1826-0348
K1091A-7.50MHZ	03795	1813-0052	LM205H	03406	1826-0017	LM380N	03406	1826-0709
K1100A	03795	1813-0128	LM207H	03406	1826-0113	LM380N-R	03406	1826-0209
K1100A-1.0MHZ	03795	1813-0134	LM208AH	03406	1826-0225	LM381N	03406	1826-0206
K1100A-1.792MHZ	03795	1813-0117	LM209D	03406	1826-0268	LM385BZ	03406	1826-0774
K1100A-10.0MHZ	03795	0960-0566	LM209K	03406	1826-0324	LM386N-1	03406	1826-0682
K1100A-10.0MHZ	03795	1813-0139	LM211H	03406	1826-0098	LM3900N	03406	1826-0120
K1100A-10.486MHZ	03795	1813-0062	LM212H	03406	1826-0110	LM3909N	03406	1826-0419
K1100A-15MHZ	03795	1813-0046	LM218H	03406	1826-0488	LM3911N	03406	1826-0390
K1100A-18.5MHZ	03795	1813-0135	LM220K-12	03406	1826-0235	LM3914N	03406	1826-0655
K1100A-2.0MHZ	03795	1813-0164	LM220K-15	03406	1826-0233	LM393N	03406	1826-0412
K1100A-20.275MHZ	03795	0960-0572	LM220K-5.0	03406	1826-0397	LM395K	03406	1826-0320
K1100A-20.0MHZ	03795	1813-0156	LM220K-5.2	03406	1826-0537	LM3999Z	03406	1826-0825
K1100A-22.8571MHZ	03795	0960-0569	LM224J	03406	1826-0232	LM399H	03406	1902-0908
K1100A-27MHZ	03795	1813-0089	LM236AH	03406	1826-0855	LM4250CH	03406	1826-0165
K1100A-29.7984MHZ	03795	1813-0154	LM236H	03406	1826-0766	LM4250CN	03406	1826-0747
K1100A-40MHZ	03795	1813-0119	LM237K	03406	1826-0763	LM555CN	03406	1826-0273
K1100A-8.589MHZ	03795	1813-0061	LM238K(STEEL)	03406	1826-0837	LM709H	03406	1820-0162
K1100A-9.216MHZ	03795	1813-0116	LM250K(STEEL)	03406	1826-0748	LM725H	03406	1826-0711
K1100A-9.8304MHZ	03795	1813-0116	LM258H	03406	1826-0745	LM78L10ACH	03406	1826-0394
K1114A-10.1376MHZ	03795	1813-0121	LM261H	03406	1826-0762	LM5700H	03406	1826-0375
K1114A-24.0MHZ	03795	0960-0570	LM271H	03406	1826-0398	MA-332-CP	09274	1826-0841
K1115A-1.0MHZ	03795	0960-0581	LM290AH	03406	1826-0611	MB7042N	06344	1816-1415
K1115A-10MHZ	03795	1813-0067	LM2917N	03406	1826-0842	MB7072N	06344	1816-1398
K1115A-2.5MHZ	03795	1813-0144	LM293P	1698	1826-0479	MB8164E (SELECTED)	06344	1818-1717
K1135A	03795	1813-0131	LM299H	03406	1826-0330	MB8866-R	06344	1820-2631
K1135B	03795	1813-0153	LM300H	03406	1820-0123	MBM10422H	06344	1816-1462
K1144A-22.016MHZ	03795	1813-0146	LM301AD	02257	1826-0069	MBM10474	06344	1816-1492
K1145A-22.016MHZ	03795	1813-0166	LM301AH, 22V	03406	1820-0242	MC1001P	02037	1820-0472
K1148A-19.6608MHZ	03795	1813-0149	LM302H	03406	1820-0158	MC1004P	02037	1820-0142
KR2376-ST-P	01425	1820-2625	LM305H	03406	1820-0247	MC1006P	02037	1820-0666
L-13-04	01854	1820-2572	LM306H	03406	1820-0475	MC1007P	02037	1820-0147
L144CJ	02883	1826-0401	LM307N	03406	1820-0493	MC10100L	02037	1820-1990
L2-0V-12	06545	1826-0693	LM308AH	03406	1826-0035	MC10100P	02037	1820-2517
L2-0V-15	06545	1826-0692	LM308H	03406	1820-0478	MC10101P	02037	1820-0801
L2-0V-20	06545	1826-0691	LM308N	03406	1826-0172	MC10102P	02037	1820-0802
L2-0V-5	06545	1826-0694	LM309H	02910	1820-0429	MC10103L	02037	1820-1831
L6-0V-5	06545	1826-0731	LM309K	02257	1820-0430	MC10103P	02037	1820-1686
L6-0V-5	06545	1826-0732	LM310H	03406	1826-0021	MC10104P	02037	1820-1400
L8114-4CJ	08831	1818-1616	LM310N	03406	1826-0208	MC10105P	02037	1820-0803
LAS 19U	06545	1826-0591	LM311F	03406	1826-0077	MC10106P	02037	1820-0804
LAS-1515	06545	1826-0402	LM311L	1698	1826-0026	MC10107P	02037	1820-0805
LAS-1815	06545	1826-0403	LM312H	03406	1826-0102	MC10109P	02037	1820-0806
LAS15A15	06545	1826-0819	LM312J	03406	1826-0201	MC1010P	02037	1820-0145
LAS18A15	06545	1826-0820	LM316AH	03406	1826-0112	MC10110P	02037	1820-0807
LAS1912	06545	1826-0784	LM317H	03406	1826-0539	MC10111P	02037	1820-0808
LAS1915	06545	1826-0754	LM317K	03406	1826-0687	MC10113L	02037	1820-1882
LD110CJ	02883	1820-1252	LM317K	03406	1826-0423	MC10113P	02037	1820-2508
LD111CJ	02883	1826-0195	LM317NC	1698	1826-0293	MC10114P	02037	1820-2324
LD114CJ	02883	1820-1474	LM317LZ	02037	1826-0772	MC10115L	02037	1820-1945
LD120CJ	02883	1826-0588	LM318H	03406	1826-0081	MC10115P	02037	1820-0809
LD121CJ	02883	1826-0587	LM318P	1698	1826-0207	MC10116L	02037	1820-1308
LD130CJ	02883	1826-0452	LM319H	03406	1826-0191	MC10116P	02037	1820-0810
LF115080	03406	1826-0695	LM319J	03406	1826-0141	MC10117L	02037	1820-1946
LF132010	03406	1826-0582	LM319N	03406	1826-0175	MC10117P	02037	1820-0811
LF13201N	03406	1820-1941	LM320H-05	03406	1826-0220	MC10118P	02037	1820-0812
LF13202N	03406	1820-1986	LM320H-12	03406	1826-0178	MC10119P	02037	1820-0813
LF13351	03406	1820-1795	LM320H-15	03406	1826-0192	MC1011P	02037	1820-0582
LF133310	03406	1826-0416	LM320H-5.2	03406	1826-0179	MC10121P	02037	1820-0815
LF133320	03406	1826-0846	LM320H-6	03406	1826-0568	MC10123P	02037	1820-2399
LF13332N	03406	1826-0510	LM320K-05	03406	1826-2202	MC10124L	02037	1820-1173
LF133330	03406	1826-0417	LM320K-15	03406	1826-0169	MC10125L	02037	1820-1052
LF13333N	03406	1826-0480	LP320K-5.2	03406	1826-0173	MC10128L	02037	1820-2400
LF135080	03406	1826-0581	LM320T-15	03406	1826-0277	MC10129L	02037	1820-2482
LF135090	03406	1826-0590	LM320T-18	03406	1826-0377	MC10130L	02037	1820-1944
LF13741H	03406	1826-0552	LM320T-8.0	03406	1826-0449	MC10150P	02037	1820-0816
LF255H	03406	1826-0458	LM321H	03406	1826-0162	MC10131P	02037	1820-0817
LF255N	02037	1826-0801	LM322N	03406	1826-0225	MC10132P	02037	1820-2476
LF256H	03406	1826-0371	LM323K	03406	1826-0181	MC10133L	02037	1820-0818
LF256H, SEL NOISE	03406	1826-03						

Desc.	Mfr.	HP P/N							
MC10161L	02037	1820-2504	MC14024BCP	02037	1820-1506	MC14569BCP	02037	1820-2383	
MC10161P	02037	1820-0827	MC14025BCP	02037	1820-1965	MC1456CG	02037	1826-0003	
MC10162L	02037	1820-2067	MC14027RBCP	02037	1820-1498	MC1456G	02037	1826-0071	
MC10162P	02037	1820-0828	MC14028BCP	02037	1820-1496	MC14572UBCP	02037	1820-1657	
MC10163L	02037	1820-2503	MC14034BCP	02037	1820-1526	MC14583BCP	02037	1820-1389	
MC10163P	02037	1820-2421	MC14032BCP	02037	1820-1512	MC14584BCP	02037	1820-2019	
MC10164L	02037	1820-0829	MC14034BCP	02037	1820-2223	MC14585BCP	02037	1820-1340	
MC10165L	02037	1820-2502	MC14035BCP	02037	1820-2232	MC145881P	02037	1826-0142	
MC10165P	02037	1820-2449	MC14038BCP	02037	1820-2080	MC1458MG	02037	1826-0556	
MC10166L	02037	1820-2323	MC14031P	02037	1820-2224	MC14585G	02037	1826-0866	
MC10166P	02037	1820-2381	MC1403U	02037	1826-0467	MC1458SP1	02037	1826-0420	
MC10168P	02037	1820-2451	MC14040BCP	02037	1826-0544	MC1463G	02037	1820-0277	
MC1016P	02037	1820-0440	MC14040BCP	02037	1820-2054	MC1463R	02037	1826-0033	
MC10170L	02037	1820-2501	MC14042BCP	02037	1820-1495	MC1468L	02037	1826-0032	
MC10170P	02037	1820-2477	MC14042BCP	02037	1820-1501	MC1468R	02037	1826-0128	
MC10171L	02037	1820-2500	MC14044BCP	02037	1820-1912	MC1469G	02037	1826-0140	
MC10171P	02037	1820-2420	MC14046BCP	02037	1820-2228	MC1469R	02037	1826-0006	
MC10172L	02037	1820-2499	MC14049UBCP	02037	1826-0470	MC1488L	02037	1826-0024	
MC10172P	02037	1820-2455	MC14049UBCP	02037	1820-1505	MC1488P	02037	1820-0509	
MC10173L	02037	1820-2498	MC1404U5	02037	1820-1746	MC1489L	02037	1820-0510	
MC10173P	02037	1820-2401	MC14050BCP	02037	1826-0718	MC1494L	02037	1826-0036	
MC10174P	02037	1820-2497	MC14051BCP	02037	1820-1521	MC1495L	02037	1826-0437	
MC10175L	02037	1820-1359	MC14051BCP	02037	1820-1547	MC1496G	02037	1820-0427	
MC10175P	02037	1820-2496	MC14052BCP	02037	1820-2613	MC1496L	02037	1826-0023	
MC10176L	02037	1820-2402	MC14052BCP	02037	1820-1546	MC1510G	02037	1826-0002	
MC10176P	02037	1820-2193	MC14053BCP	02037	1826-0486	MC1514L	02037	1826-0125	
MC10178L	02037	1820-1399	MC1405L	02037	1826-0501	MC1531G	02037	1820-0050	
MC10178P	02037	1820-2066	MC14066BCP	02037	1826-0642	MC1545G	02037	1826-0103	
MC10179L	02037	1820-1632	MC14068BCP	02037	1826-0502	MC1550G	02037	1826-0028	
MC10179P	02037	1820-0830	MC14068BCP	02037	1820-1931	MC1555G	02037	1826-0400	
MC1017P	02037	1820-2474	MC14069UBCP	02037	1820-1592	MC1558G	02037	1826-0243	
MC10180P	02037	1820-0146	MC14069UBCP	02037	1820-2014	MC1590G	02037	1826-0037	
MC10181L	02037	1820-2481	MC1406L	02037	1826-0155	MC1595L	02037	1826-0014	
MC10182P	02037	1820-0831	MC14070BCP	02037	1820-1908	MC1648L	02037	1820-1119	
MC10183L	02037	1820-2478	MC14071BCP	02037	1820-2015	MC1648R	02037	1820-1108	
MC10186P	02037	1820-2479	MC14071BCP	02037	1820-1970	MC1650L	02037	1820-0919	
MC10189P	02037	1820-2403	MC14073BCP	02037	1820-1388	MC1658P	02037	1826-0509	
MC10189P	02037	1820-2385	MC14073BCP	02037	1820-1910	MC1660L	02037	1820-0790	
MC1018P	02037	1820-2450	MC14075BCP	02037	1820-1909	MC1662L	02037	1820-0796	
MC10194P	02037	1820-0144	MC14075BCP	02037	1820-2091	MC1664L	02037	1820-0795	
MC10195P	02037	1820-2480	MC14076BCP	02037	1820-2220	MC1670L	02037	1820-0794	
MC10197P	02037	1820-1685	MC14077BCP	02037	1820-1907	MC1672L	02037	1820-0797	
MC10198L	02037	1820-2023	MC14078BCP	02037	1820-1930	MC1674L	02037	1820-0793	
MC1019P	02037	1820-2376	MC14081BCP	02037	1820-2037	MC1678L	02037	1820-2664	
MC1020P	02037	1820-1036	MC14082BCP	02037	1820-2090	MC1690L	02037	1820-1132	
MC10210L	02037	1820-0212	MC1408L-6	02037	1826-0248	MC1692L	02037	1820-0920	
MC10210P	02037	1820-1830	MC1408L-8	02037	1826-0188	MC1694L	02037	1820-1334	
MC10211P	02037	1820-2495	MC14093BCP	02037	1820-1936	MC1697P	02037	1820-1852	
MC10212L	02037	1820-1482	MC14174BCP	02037	1820-2258	MC1723CG	02037	1820-0196	
MC10212P	02037	1820-1832	MC14175BCP	02037	1820-2279	MC1723L	02037	1826-0409	
MC10216L	02037	1820-1950	MC1420G	02037	1826-0200	MC1733CL	02037	1826-0064	
MC10216P	02037	1820-1320	MC1431P	02037	1820-0160	MC1741CL	02037	1826-0070	
MC1022P	02037	1820-1224	MC1433G	02037	1820-0316	MC1741MCP1	02037	1826-0505	
MC10231L	02037	1820-0272	MC1433L	02037	1820-0181	MC1741SCG	02037	1826-0302	
MC10231P	02037	1820-2516	MC1435P	02037	1820-0317	MC1741SCP1	02037	1826-0254	
MC1024P	02037	1820-1225	MC1436CG	02037	1826-0343	MC1741SU	02037	1826-0743	
MC1025P	02037	1820-0157	MC1436G	02037	1826-0038	MC1776CG	02037	1826-0086	
MC1026P	02037	1820-0578	MC1437L	02037	1826-0019	MC1800P	02037	1820-0985	
MC1027P	02037	1820-0444	MC1438R	02037	1826-0060	MC1801L	02037	1820-0868	
MC1029P	02037	1820-0252	MC1439G	02037	1820-0201	MC1801P	02037	1820-0441	
MC1030P	02037	1820-0143	MC1439L	02037	1826-0022	MC1805P	02037	1820-0454	
MC1031P	02037	1820-0200	MC14411P	02037	1820-1779	MC1806P	02037	1820-0273	
MC1032P	02037	1820-0235	MC14412VP	02037	1820-2166	MC1808P	02037	1820-0274	
MC1033P	02037	1820-0581	MC14433L	02037	1826-0431	MC1810P	02037	1820-0238	
MC1034P	02037	1820-0276	MC1445L	02037	1826-0334	MC1812P	02037	1820-0418	
MC1035P	02037	1820-0101	MC14490FP	02037	1820-1947	MC1814P	02037	1820-0665	
MC1037P	02037	1820-0253	MC14490VP	02037	1820-2306	MC2257L	02037	1820-1156	
MC1039P	02037	1820-1227	MC14501UBCP	02037	1820-1079	MC2259L	02037	1820-1157	
MC1040P	02037	1820-0275	MC14502BCP	02037	1820-1635	MC2902APC	02037	1820-2389	
MC1043P	02037	1820-0667	MC14502BCP	02037	1820-1385	MC2918PC	02037	1820-2415	
MC1047P	02037	1820-0792	MC14503BCP	02037	1820-2257	MC3001P	02037	1820-0141	
MC1049P	02037	1820-0897	MC14504BCP	02037	1820-2326	MC3002P	02037	1820-0239	
MC1062P	02037	1820-0473	MC14506BCP	02037	1820-1386	MC3002P	02037	1820-0923	
MC1062P	02037	1820-0916	MC14507CP	02037	1820-1330	MC3003P	02037	1820-0205	
MC1065P	02037	1820-0917	MC14508BCP	02037	1820-1693	MC3006P	02037	1820-0204	
MC1068P	02037	1820-0791	MC14510BCP	02037	1820-1189	MC3007P	02037	1820-1031	
MC10804L	02037	1820-2409	MC14513BCP	02037	1820-2462	MC3022P	02037	1820-0617	
MC10805L	02037	1820-2348	MC14515BCP	02037	1820-1329	MC3025P	02037	1820-0604	
MC12002P	02037	1826-0598	MC14516BCP	02037	1820-1114	MC3026P	02037	1820-0140	
MC12012L	02037	1820-1242	MC14517BCP	02037	1820-1815	MC3029P	02037	1820-0700	
MC12013L	02037	1820-1888	MC14518BCP	02037	1820-1591	MC3060P	02037	1820-0449	
MC12040L	02037	1820-1344	MC14518BCP	02037	1820-1122	MC3061P	02037	1820-0609	
MC12040P	02037	1826-0364	MC14519BCP	02037	1820-1387	MC3062P	02037	1820-0451	
MC1204L	02037	1820-1915	MC14520BCP	02037	1820-1150	MC3103L	02037	1820-1375	
MC12051P	02037	1820-1977	MC14520BCP	02037	1820-2021	MC3245L	02037	1820-1758	
MC1210L	02037	1820-1025	MC145229AL	02037	1820-1181	MC3340P	02037	1826-0399	
MC1213L	02037	1820-1026	MC145229BCP	02037	1820-1175	MC34002AG	02037	1826-0741	
MC1306P	02037	1826-0293	MC14526BCP	02037	1820-1328	MC34004HL	02037	1826-0753	
MC1350P	02037	1826-0159	MC14527BCP	02037	1820-1265	MC3403P	02037	1826-0312	
MC1355P	02037	1826-0382	MC14528BCP	02037	1820-2051	MC3405P	02037	1826-0424	
MC14001BCP	02037	1820-1745	MC14528BCP	02037	1820-1356	MC3410CL	02037	1826-0462	
MC14001UBCP	02037	1820-1499	MC14530BCP	02037	1820-1327	MC3410CP	02037	1826-0529	
MC14002BCP	02037	1820-2074	MC14532BCP	02037	1820-1570	MC3420P	02037	1826-0526	
MC14002UBCP	02037	1820-1511	MC14532BCP	02037	1820-1355	MC3423P1	02037	1826-0468	
MC14007UBCP	02037	1820-1503	MC14534BCP	02037	1820-1855	MC3431P	02037	1826-0360	
MC14008BCP	02037	1820-1525	MC14536BCP	02037	1826-0411	MC3440P	02037	1820-1522	
MC14011BCP	02037	1820-2576	MC14538BCP	02037	1820-1569	MC3441AP	02037	1820-1548	
MC14011BCP	02037	1820-1747	MC14538BCP	02037	1820-1932	MC3442P	02037	1820-1892	
MC14011UBCP	02037	1820-1500	MC14539BCP	02037	1820-1544	MC3443P	02037	1826-0253	
MC14012BCP	02037	1820-1960	MC14541BCP	02037	1820-1471	MC3446P	02037	1826-0253	
MC14012UBCP	02037	1820-1507	MC14543BCP	02037	1820-1658	MC3447P	02037	1826-0253	
MC14013BCP	02037	1820-1497	MC14549BCP	02037	1820-2097	MC3447P3	02037	1820-1689	
MC14013BCP	02037	1820-2055	MC14553BCP	02037	1820-1721	MC3450P	02037	1820-1424	
MC14015BCP	02037	1820-1176	MC14555BCP	02037	1820-2050	MC3452P	02037	1820-2461	
MC14015BCP	02037	1820-1502	MC14556BCP	02037	1820-1412	MC3453P	02037	1820-2157	
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MC14016BCP	02037	1820-1504	MC14558BCP	02037	1820-2344	MC3459CP	02037	1820-1746	
MC14017BCP	02037	1820-1504	MC14559BCP	02037	1820-1573	MC3460P	02037	1820-1810	
MC14020BCP	02037								

Desc.	Mfr.	HP P/N	MCA94L	02037	1820-0866	MM74C151N	03406	1820-2065
MC4002P	02037	1820-0843	MC8500P	02037	1820-2297	MM74C154AN	03406	1820-1827
MC4006P	02037	1820-0608	MC8502P	02037	1820-2296	MM74C157N	03406	1820-1365
MC4007P	02037	1820-0724	MC850P	02037	1820-0087	MM74C160M	03406	1820-1390
MC4008P	02037	1820-0842	MC851L	02037	1820-0860	MM74C161N	03406	1820-1391
MC4010P	02037	1820-0836	MC853P	02037	1820-0122	MM74C162M	03406	1820-2214
MC4012P	02037	1820-0607	MC857P	02037	1820-0257	MM74C163M	03406	1820-1493
MC4015P	02037	1820-0437	MC858L	02037	1820-0863	MM74C164N	03406	1820-1559
MC4016P	02037	1820-1183	MC8601P	02037	1820-2007	MM74C165N	03406	1820-1560
MC4018P	02037	1820-1332	MC8602L	02037	1820-1224	MM74C173N	03406	1820-1190
MC4022P	02037	1820-1109	MC8602P	02037	1820-0515	MM74C175N	03406	1820-1562
MC4024P	02037	1820-0567	MC8602L	02037	1820-0515	MM74C192N	03406	1820-1575
MC4030P	02037	1820-0834	MC8602P	02037	1820-1224	MM74C193N	03406	1820-1561
MC4044P	02037	1820-0630	MC8602P	02037	1820-0515	MM74C200N	03406	1820-1626
MC640P	02037	1820-1520	MC8602P	02037	1820-0515	MM74C221J	03406	1820-1612
MC662P	02037	1820-0288	MC8602P	02037	1820-0515	MM74C221N	03406	1820-1485
MC663P	02037	1820-1519	MC8602P	02037	1820-0515	MM74C240N	03406	1820-2538
MC666P	02037	1820-0625	MC8602P	02037	1820-0515	MM74C240N	03406	1820-2566
MC667P	02037	1820-1606	MC8602P	02037	1820-0515	MM74C244N	03406	1820-2537
MC668P	02037	1820-1605	MC8602P	02037	1820-0515	MM74C30N	03406	1820-1674
MC670P	02037	1820-2133	MC8602P	02037	1820-0515	MM74C32N	03406	1820-2213
MC672P	02037	1820-0287	MC8602P	02037	1820-0515	MM74C373N	03406	1820-2215
MC6800L	02037	1820-2505	MC8602P	02037	1820-0515	MM74C374N	03406	1820-2216
MC6800L	02037	1820-1480	MC8602P	02037	1820-0515	MM74C42N	03406	1820-1735
MC6800P	02037	1820-2411	MC8602P	02037	1820-0515	MM74C73N	03406	1820-2605
MC6802L	02037	1820-2151	MC8602P	02037	1820-0515	MM74C74J	03406	1820-1933
MC6802P	02037	1820-2099	MC8602P	02037	1820-0515	MM74C74N	03406	1820-1753
MC6803L-1	02037	1820-2651	MC8602P	02037	1820-0515	MM74C78J	03406	1820-2606
MC6803P	02037	1820-2562	MC8602P	02037	1820-0515	MM74C83N	03406	1820-2343
MC6809L	02037	1820-2612	MC8602P	02037	1820-0515	MM74C85N	03406	1820-1806
MC6809P	02037	1820-2490	MC8602P	02037	1820-0515	MM74C86N	03406	1820-2276
MC6821L	02037	1820-1481	MC8602P	02037	1820-0515	MM74C89N	03406	1820-1392
MC6828P	02037	1820-2030	MC8602P	02037	1820-0515	MM74C901N	03406	1820-1651
MC6840P	02037	1820-2469	MC8602P	02037	1820-0515	MM74C902N	03406	1820-1652
MC6844P	02037	1820-2463	MC8602P	02037	1820-0515	MM74C903N	03406	1820-1653
MC6845P	02037	1820-2546	MC8602P	02037	1820-0515	MM74C904N	03406	1820-1654
MC6848BL	02037	1820-2113	MC8602P	02037	1820-0515	MM74C905J	03406	1820-1935
MC6848BP	02037	1820-2217	MC8602P	02037	1820-0515	MM74C906N	03406	1820-1655
MC6850L	02037	1820-1690	MC8602P	02037	1820-0515	MM74C907N	03406	1820-1656
MC6850P	02037	1820-2470	MC8602P	02037	1820-0515	MM74C908N	03406	1820-2275
MC6852CP	02037	1820-2175	MC8602P	02037	1820-0515	MM74C910N	03406	1820-0754
MC6870A	03795	1820-1637	MC8602P	02037	1820-0515	MM74C914N	03406	1820-1178
MC6871A-1.0MHZ	03795	1820-2285	MC8602P	02037	1820-0515	MM74C920N	03406	1820-0753
MC6875L	02037	1820-2036	MC8602P	02037	1820-0515	MM74C922N	03406	1820-2156
MC6881P/MC3449P	02037	1820-2165	MC8602P	02037	1820-0515	MM74C923N	03406	1820-2309
MC6885P	02037	1820-2489	MC8602P	02037	1820-0515	MM74C925N	03406	1820-2540
MC68A00P	02037	1820-2137	MC8602P	02037	1820-0515	MM74C941N	03406	1820-2630
MC68A08P	02037	1820-2240	MC8602P	02037	1820-0515	MM80C097J	03406	1820-1823
MC68A21L	02037	1820-2180	MC8602P	02037	1820-0515	MM82C19N	03406	1820-2413
MC68A21P	02037	1820-2081	MC8602P	02037	1820-0515	MM88C29N	03406	1820-2217
MC68A40P	02037	1820-2307	MC8602P	02037	1820-0515	MM88C30N	03406	1820-2218
MC68A48BL	02037	1820-2148	MC8602P	02037	1820-0515	MMH0026CL	02037	1820-1288
MC68A48BP	02037	1820-2428	MC8602P	02037	1820-0515	MMH0026CP1	02037	1820-1366
MC68A50P	02037	1820-2284	MC8602P	02037	1820-0515	MMH0026L	02037	1820-1170
MC68B00L	02037	1820-2358	MC8602P	02037	1820-0515	MPQ2222P	02037	1858-0077
MC68B00P	02037	1820-2293	MC8602P	02037	1820-0515	MPQ2365	02037	1858-0055
MC68B09P	02037	1820-2624	MC8602P	02037	1820-0515	MPQ2906	02037	1858-0010
MC68B21L	02037	1820-2602	MC8602P	02037	1820-0515	MPQ2907P	02037	1858-0076
MC68B60P	02037	1820-2291	MC8602P	02037	1820-0515	MPQ3546	02037	1858-0075
MC7242P	02037	1820-0719	MC8602P	02037	1820-0515	MPQ3725	02037	1858-0034
MC7250P	02037	1820-0786	MC8602P	02037	1820-0515	MPQ3762	02037	1858-0062
MC7270P	02037	1820-0984	MC8602P	02037	1820-0515	MPQ3798	02037	1858-0071
MC7441AP	02037	1820-0100	MC8602P	02037	1820-0515	MPQ3906	02037	1858-0058
MC7479P	02037	1820-0908	MC8602P	02037	1820-0515	MPQ6100	02037	1858-0074
MC7805CK	02037	1826-0246	MC8602P	02037	1820-0515	MPQ6842	02037	1820-1804
MC7805CP	02037	1826-0144	MC8602P	02037	1820-0515	MT8860AE	02037	1826-0824
MC7806CP	02037	1826-0145	MC8602P	02037	1820-0515	MUX-88FQ	02180	1826-0609
MC7808CP	02037	1826-0146	MC8602P	02037	1820-0515	MUX08FQ	02180	1826-0610
MC7812CT	02037	1826-0147	MC8602P	02037	1820-0515	MUX24FQ	02037	1813-0211
MC7815CP	02037	1826-0106	MC8602P	02037	1820-0515	MWA110	02037	1813-0212
MC7818CK	02037	1826-0149	MC8602P	02037	1820-0515	MWA120	02037	1813-0213
MC7818CP	02037	1826-0149	MC8602P	02037	1820-0515	MWA130	02037	1813-0215
MC78L05ACP	02037	1826-0276	MC8602P	02037	1820-0515	MWA210	02037	1813-0214
MC78L12ACP	02037	1826-0275	MC8602P	02037	1820-0515	MWA220	02037	1813-0215
MC78L15ACG	02037	1826-0353	MC8602P	02037	1820-0515	MWA230	02037	1813-0216
MC78L15ACP	02037	1826-0274	MC8602P	02037	1820-0515	MWA310	02037	1813-0217
MC78M05CG	02037	1826-0367	MC8602P	02037	1820-0515	MWA320	02037	1813-0218
MC78M13CG	02037	1826-0512	MC8602P	02037	1820-0515	MWA330	02037	1813-0219
MC78M13CP	02037	1826-0464	MC8602P	02037	1820-0515	MT45253N	02910	1820-2287
MC7902CT	02037	1826-0688	MC8602P	02037	1820-0515	MS162N	02910	1820-0457
MC7905-2CT	02037	1826-0215	MC8602P	02037	1820-0515	MS200N	02910	1820-1337
MC7905CT	02037	1826-0294	MC8602P	02037	1820-0515	MS202N	02910	1820-0508
MC7908CP	02037	1826-0344	MC8602P	02037	1820-0515	MS220N	02910	1820-0845
MC7912CK	02037	1826-0123	MC8602P	02037	1820-0515	MS233N	02910	1820-0542
MC7915CK	02037	1826-0451	MC8602P	02037	1820-0515	MS234N	02910	1820-0575
MC7915CT	02037	1826-0214	MC8602P	02037	1820-0515	MS235N	02910	1820-0569
MC79L03C	02037	1826-0286	MC8602P	02037	1820-0515	MS243N	02910	1820-0462
MC79L05ACG	02037	1826-0496	MC8602P	02037	1820-0515	MS251N	02910	1820-0507
MC79L05ACP	02037	1826-0285	MC8602P	02037	1820-0515	MS263N	02910	1820-0835
MC79L06C	02037	1826-0284	MC8602P	02037	1820-0515	MS267N	02910	1820-0835
MC79L12ACG	02037	1826-0495	MC8602P	02037	1820-0515	MS271N	02910	1820-0989
MC79L12ACP	02037	1826-0282	MC8602P	02037	1820-0515	MS273N	02910	1820-1045
MC79L15ACP	02037	1826-0281	MC8602P	02037	1820-0515	MS280N	02910	1820-0322
MC815P	02037	1820-0325	MC8602P	02037	1820-0515	MS281N	02910	1820-0400
MC816P	02037	1820-0106	MC8602P	02037	1820-0515	MS284N	02910	1820-0536
MC817P	02037	1820-0411	MC8602P	02037	1820-0515	MS288N	02910	1820-0455
MC824P	02037	1820-0329	MC8602P	02037	1820-0515	MS290N	02910	1820-0450
MC8266P	02037	1820-0506	MC8602P	02037	1820-0515	MS291N	02910	1820-0492
MC8301P	02037	1820-0111	MC8602P	02037	1820-0515	MS292N	02910	1820-0703
MC8307P	02037	1820-0914	MC8602P	02037	1820-0515	MS293N	02910	1820-0789
MC8308P	02037	1820-0742	MC8602P	02037	1820-0515	MS299I		

Desc.	Mfr.	HP P/N						
NR25131F	02910	1816-1482	P4002-1	03811	1818-0449	SN54HI06N	01698	1820-1595
NR25136F	02910	1816-0930	P4040	03811	1820-2069	SN54HI1J	01698	1820-1067
NR25137AM	02910	1816-1475	P4265	03811	1820-2072	SN54H30J	01698	1820-1068
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SN74ALS32N	01698	1820-2657	SN74LS15N	01698	1820-1243	SN74LS646N	01698	1820-2675
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SN74AS804N	01698	1820-2557	SN74LS161AN	01698	1820-1430	SN74LS669N	01698	1820-1435
SN74AS808N	01698	1820-2558	SN74LS162AN	01698	1820-1431	SN74LS670N	01698	1820-1447
SN74H00N	01698	1820-0370	SN74LS163AN	01698	1820-1432	SN74LS673N	01698	1820-2313
SN74H01N	01698	1820-0605	SN74LS164N	01698	1820-1433	SN74LS686N	01698	1820-2610
SN74H04N	01698	1820-0424	SN74LS165N	01698	1820-1975	SN74LS73AN	01698	1820-1574
SN74H05N	01698	1820-0613	SN74LS166N	01698	1820-1922	SN74LS74AJ	01698	1820-1668
SN74H101N	01698	1820-0739	SN74LS169AN	01698	1820-2460	SN74LS74AJ	01698	1820-1112
SN74H102N	01698	1820-0469	SN74LS170N	01698	1820-1436	SN74LS75N	01698	1820-1411
SN74H103N	01698	1820-0544	SN74LS174N	01698	1820-1196	SN74LS76AN	01698	1820-2464
SN74H106N	01698	1820-0715	SN74LS174N	01698	1820-1914	SN74LS83AN	01698	1820-0910
SN74H108N	01698	1820-0631	SN74LS175N	01698	1820-1195	SN74LS85N	01698	1820-1419
SN74H10N	01698	1820-0371	SN74LS181N	01698	1820-1280	SN74LS86J	01698	1820-2587
SN74H11N	01698	1820-0372	SN74LS182N	02037	1820-2563	SN74LS86N	01698	1820-1211
SN74H15N	01698	1820-1263	SN74LS190N	01698	1820-1279	SN74LS90N	01698	1820-1490
SN74H183N	01698	1820-0847	SN74LS191N	01698	1820-1278	SN74LS91N	01698	1820-1784
SN74H20N	01698	1820-0373	SN74LS192N	01698	1820-1277	SN74LS92N	01698	1820-1420
SN74H21N	01698	1820-0374	SN74LS193N	01698	1820-1194	SN74LS958N	01698	1820-1478
SN74H22N	01698	1820-0619	SN74LS194AN	01698	1820-1276	SN74LS958N	01698	1820-1283
SN74H30N	01698	1820-0375	SN74LS195AN	01698	1820-1300	SN74LS96N	01698	1820-1421
SN74H40J	01698	1820-0867	SN74LS196N	01698	1820-1251	SN74S00N	01698	1820-0681
SN74H40N	01698	1820-0376	SN74LS197N	02037	1820-2049	SN74S02N	01698	1820-1322
SN74H50N	01698	1820-0377	SN74LS20J	01698	1820-1193	SN74S03N	01698	1820-0682
SN74H51N	01698	1820-0378	SN74LS20N	01698	1820-2580	SN74S04N	01698	1820-0683
SN74H52N	01698	1820-0379	SN74LS21N	01698	1820-1204	SN74S05N	01698	1820-0684
SN74H53N	01698	1820-0380	SN74LS221J	01698	1820-1205	SN74S08N	01698	1820-1367
SN74H54N	01698	1820-0381	SN74LS221N	01698	1820-2346	SN74S09N	01698	1820-1448
SN74H55N	01698	1820-0382	SN74LS22N	01698	1820-1437	SN74S10N	01698	1820-0685
SN74H60N	01698	1820-0383	SN74LS240N	01698	1820-1274	SN74S112N	01698	1820-0629
SN74H61N	01698							

Desc.	Mfr.	HP P/N						
			SP380N	02910	1820-1187	UA201HC	02237	1820-0104
			SP616N	02910	1820-0318	UA208H	02237	1826-0072
			SP620N	02910	1820-0078	UA217K	02237	1826-0673
			SP6235B	03795	1813-0129	UA304HC	02237	1826-0004
			SP629N	02910	1820-0319	UA4136PC	02237	1826-0222
			SP631N	02910	1820-0067	UA7090C	01698	1820-0397
			SP659N	02910	1820-0320	UA7110C	02237	1826-0055
			SP670N	02910	1820-0302	UA7141HC	02237	1826-0574
			SP680N	02910	1820-0303	UA723CJ	01698	1826-0049
			SP841080G	01590	1820-2140	UA726HC	02237	1826-0031
			SP861180G	01590	1820-2292	UA734HC	02237	1826-1803
			SP861780G	01590	1820-2338	UA7390C	02237	1826-0044
			SP862280G	01590	1820-2047	UA740HC	02237	1826-0056
			SP86418	01590	1820-1384	UA7470M	02237	1826-0135
			SP0167B	02037	1858-0052	UA7490C	02237	1826-1804
			SS1104A	08608	1820-2425	UA790DHX	02237	1826-0342
			SS1105A	08608	1820-2426	UA75922C	02237	1826-0531
			SS5725B	02180	1826-0008	UA75901C	02237	1826-0833
			SS5725CJ	02180	1826-0009	UA7600C	02237	1826-0132
			SS5741CJ	02180	1826-0013	UA760HC	02237	1826-0231
			SU-01F0	02180	1826-0811	UA7767C	02237	1826-0212
			SU-02F0	02180	1826-0720	UA7824CKC	01698	1826-0150
			SYC6502B	01795	1820-2589	UA7824KC	02237	1826-0262
			SYM1404A	01795	1820-0763	UA78GKC	02237	1826-0443
			SY2111A-2	01795	1818-0381	UA78G01C	02237	1826-0456
			SY2112A	01795	1818-0553	UA78H055C	02237	1813-0100
			SY2112A-4	01795	1818-0140	UA78H125C	02237	1813-0093
			SY26551	01795	1820-2577	UA78H15KC	02237	1813-0124
			SZA266	02037	1826-0507	UA78HGKC	02237	1813-0123
			TOA 2709V	01991	1820-0058	UA78L26AMC	02237	1826-0460
			TBA231	06338	1826-0318	UA78L62AMC	02237	1826-0586
			TRP14S10N	01698	1816-1137	UA78M06HL	02237	1826-0349
			TRP14S410N	01698	1816-1358	UA78M12UC	02237	1826-0345
			TRP18S030J	01698	1816-1468	UA78M6HC	02237	1826-0584
			TRP18S030N	01698	1816-1153	UA78M0G1C	02237	1826-0484
			TRP18S22N	01698	1816-1388	UA78S40PC	02237	1826-0603
			TRP18S42J	01698	1816-1008	UA7905UC	02237	1826-0445
			TRP18S42N	01698	1816-1055	UA7906UC	02237	1826-0478
			TRP18S46N	01698	1816-1329	UA7912CKC	01698	1826-0221
			TRP18S4030N	01698	1816-1174	UA7912UC	02237	1826-0418
			TC5504P-1	06354	1818-1583	UA7924CKC	01698	1826-0299
			TC5514P	06354	1818-1350	UA7924CKC	01698	1826-0620
			TDC1010J	08659	1820-2452	UA7952UC	02237	1826-0404
			TDC1014J	08659	1826-0781	UA796KC	02237	1826-0444
			TXL105	01698	1820-0279	UA79G01C	02237	1826-0441
			TL022CP	01698	1826-0770	UA79HGKC	02237	1813-0127
			TL061CP	01698	1826-0640	UA79M06AMC	02237	1826-0701
			TL062CP	01698	1826-0683	UA79M08AMC	02237	1826-0793
			TL064CN	01698	1826-0786	UA79M12AMC	02237	1826-0300
			TL0718CP	01698	1826-0520	UA79M12CKC	01698	1826-0629
			TL071CP	01698	1826-0519	UA79M12CKC	01698	1826-0649
			TL072ACJG	01698	1826-0785	UA79M15AUC	02237	1826-0829
			TL0722CP	01698	1826-0547	UA79M15CLA	01698	1826-0511
			TL072CP	01698	1826-0521	UA79NGHC	02237	1826-0583
			TL074ACN	01698	1826-0600	UA79NG01C	02237	1826-0483
			TL074CN	01698	1826-0522	UAF3557C	02237	1826-0491
			TL0822CP	01698	1826-0545	UAF772HC	02237	1826-0843
			TL082CP	01698	1826-0682	UDN-5703A	02634	1820-2682
			TL084ACN	01698	1826-0572	UDN-5706A	02634	1820-2683
			TL0848CN	01698	1826-0538	UDN-5707A	02634	1820-2020
			TL084CN	01698	1826-0410	UDN2981A	02634	1820-2273
			TL170CPL	01698	1826-0757	UHP-402	02634	1820-1120
			TL182CN	01698	1826-0675	UHP-407	02634	1820-2129
			TL376CNE	01698	1826-0859	UHP-408	02634	1820-1086
			TL431CPL	01698	1826-0643	ULN-2003A	02634	1858-0047
			TL494CN	01698	1826-0565	ULN-2004A	02634	1858-0061
			TL497CN	01698	1826-0450	ULN-2003A	02634	1858-0067
			TL500ACN	01698	1826-0651	ULN-2064B	02634	1820-2170
			TL514CN	01698	1826-0051	ULN-2065B	02634	1820-2473
			TL601CP	01698	1826-0476	ULN-2068B	02634	1820-2274
			TL604TP	01698	1820-1973	ULN-2074B	02634	1820-2130
			TL607CP	01698	1820-1948	ULN-2711A	02634	1826-0029
			TL610CP	01698	1826-0477	ULN-2803A	02634	1858-0069
			TL702CN	01698	1820-0396	ULN-2805A	02634	1858-0073
			TL7805ACKC	01698	1826-0551	ULN-2813A	02634	1858-0072
			TMS-4024NC	01698	1820-1174	ULN-2815A-2	02634	1858-0065
			TMS0105NC	01698	1820-1232	ULN2082A	02634	1858-0037
			TMS2114-45NL	01698	1818-0438	UM1509	04200	1820-0498
			TMS2516-35JL	01698	1818-0851	UP416C-1(SELECTED)	00039	1818-1467
			TMS2516JL	01698	1818-0498	UP416C-2(SELECTED)	00039	1818-1396
			TMS2532JDL-35	01698	1818-1581	UP416C-3(SELECTED)	00039	1818-1397
			TMS2532JL	01698	1818-0762	UPC303A	00039	1820-0477
			TMS2716JL	01698	1818-0743	UPC311C	00039	1826-0665
			TMS27L08JL	01698	1818-0491	UPD1990C	00039	1820-2541
			TMS3002LJL	01698	1820-0211	UPD2114L-5	00039	1818-1300
			TMS3113NC	01698	1820-1186	UPD2114L-1	00039	1818-0443
			TMS3120NC	01698	1820-1346	UPD369C	00039	1820-2060
			TMS3122NC	01698	1820-1178	UPD416D-2	00039	1818-0341
			TMS3129NC	01698	1820-2092	UPD444/6514	00039	1818-1346
			TMS4027-15JL SELCTD	01698	1818-0317	UPD444C-1	00039	1818-1330
			TMS4027-20JL SELCTD	01698	1818-0334	UPD5101LC	00039	1818-0708
			TMS4030JL	01698	1818-0103	UPD8228D	00039	1820-1920
			TMS4044NL-45	01698	1818-1398	UPD8243C	00039	1820-2177
			TMS4050-1JL SELCTD	01698	1818-0181	UPD8251D	00039	1820-1844
			TMS4050JL SELCTD	01698	1818-0146	UPD8255AD	00039	1820-2005
			TMS4050NL	01698	1818-0147	UT-309	00039	1820-1919
			TMS4060-2JL	01698	1818-0247	VFC32KP	02634	1826-0868
			TMS4060JL SELECTED	01698	1818-0165	W8259A	00575	1826-0624
			TMS4103NC	01698	1818-0102	XC79L12CG	02037	1826-0332
			TMS4116-15JL SELCTD	01698	1818-0509	XR-2207CP	02037	1826-0331
			TMS4116-25JL SELCTD	01698	1818-0340	XR-2209CN	00350	1826-1648
			TMS8080ANL	01698	1820-2183	XR-2209CN	00350	1826-0873
			TMS9900JL	01698	1820-2349	XR2240	00350	1820-1628
			TMS9914JL	01698	1820-2551	XR320	00350	1826-0237
			TMS9914NL	01698	1820-2548	XR346CJ	00350	1826-0719
			TOA 5709V	01991	1820-0113	XR5534ACN	00350	1826-0783
			TR1602A	00575	1820-1219	Z0440	02882	1813-0040
			TR1602A	00575	1820-1681	Z0441	02882	1813-0039
			TR1602B-05	00575	1820-1911			
			TR1863A	00575	1820-2419			
			TR1863B	00575	1820-2423			
			TTL0M-100	07397	1813-0197			
			TTL0M-200	07397	1813-0193			
			TTL0M-400	07397	1813-0229			
			UA0R01EPC	02237	1826-0550			

supplement to
BENCH BRIEFS
 SERVICE NOTE INDEX

Need Any Service Notes?

They're free!

Here's the latest listing of Service Notes. They recommend modifications to Hewlett-Packard instruments to increase reliability, improve performance, or extend their usefulness.

Use the order form at the rear of Bench Briefs to select the notes that relate to your instruments.

181T/TR OSCILLOSCOPE

- 181T/TR-2. 181T serials 2034A and below; 181TR serials 2035A and below. Modification to prevent potential instrument damage during service.
 181T/TR-3. 181T serials 2034A and below; 181TR serials 2035A and below. Preferred HP part numbers for replacing the voltage reference tube in the positive or negative 100V power supply.

612A SIGNAL GENERATOR

- 612A-12A. Serials 1914A and below. Modification to improve external modulation accuracy.

613C SHF SIGNAL GENERATOR

- 613C-14. All serials. Part change to assure proper pulse performance of the signal generator when V701 is changed.

620B SHF SIGNAL GENERATOR

- 620B-16. All serials. Part change to assure proper pulse performance of the signal generator when V701 is changed.

339A DISTORTION ANALYZER

- 339A-7A. Serials 2025A-02365 and below. Solution to inadequate frequency vernier overlap.

651B TEST OSCILLATOR

- 651B-9. All serials. Procedure for adjusting attenuator shielding to improve attenuator accuracy specifications.

652A TEST OSCILLATOR

- 652A-5. All serials. Procedure for adjusting attenuator shielding to improve attenuator accuracy specifications.

1311A DISPLAY

- 1311A-20. Serials 1915A only. New RFI suppression capacitor A11C8 to improve reliability of 250V low voltage power supply.

1615A LOGIC ANALYZER

- 1615A-4. Serials 2032A05185 and below. Corrective measure for display jitter.

1722B OSCILLOSCOPE

- 1722B-3. Serials 2034A01155 and below. Component changes to prevent mistriggering at ECL logic speeds (100 MHz).

1725A OSCILLOSCOPE

- 1725A-7. Serials 2047A03560 and below. Component changes to prevent mistriggering at ECL logic speeds (100 MHz).

1742A OSCILLOSCOPE

- 1742A-1A. Serials 1807A. Modification to prevent false readings in delayed sweep "TRIG'D" mode.
 1742A-2. All serials. Improved connector mating reliability between A3 vertical preamp and A5 vertical output PC boards.

1980A/B OSCILLOSCOPE

- 1980A/B-3. Serials 1947A-. Preferred horizontal hybrid replacement.
 1980A/B-4. Serials 2106A and below. Preferred replacement trigger hybrid A5U1.

3060A BOARD TEST SYSTEM

- 3060A-2. All serials. Preventive maintenance procedure.
 3060A-3-S. 3060A board test system options 200/201/202/205 only. Serials 1801A00324 and below. 34196A Scanner Power Supply AC line is reverse wired.
 3060A-4. All serials. Procedure for cleaning DUT Power Supply relays.
 3060A-5. Serials 1801A00100 and up. CCD revision 1938. Modification of CCD programs "DIGITL" and ".M0802" for proper 3455A operation during receiver test.
 3060A-6. All serials. How to identify CCD Rev 1938 signatures.
 3060A-7. All serials. BTL Rev2014 — BTL program abort due to missing SA card in scanner.
 3060A-8. All serials. BTL/IPG update tape for Revision 2014.
 3060A-9. All serials. Procedure for interfacing the 9885M disk drive in the 3060A system.
 3060A-11. All serials. 6253A DUT power supplies description.
 3060A-12. All serials. Loading BTL from a running program.
 3060A-13. All serials. Software BTL revision from 1903 to 2014.
 3060A-16A. All serials. Software CCD revision from 2027 to 2036.
 3060A-17. All serials. Proper use of 9825B/T controllers in 3060A or 44525A programming stations.

3200B VHF OSCILLATOR

- 3200B-6. Serials 1902A and below. Modification to increase output power.

3253A ANALOG STIMULUS/RESPONSE UNIT

- 3253A-3. All serials. Cleaning ASRU multiplexing relays.

3312A FUNCTION GENERATOR

- 3312A-4A. Serials 1432A06631 and below. Modification to prevent output signal clipping or frequency variations with amplitude control.

3325A SYNTHESIZER/FUNCTION GENERATOR

- 3325A-1B. Serials 1748A01200 and below (USA); 1818G00370 and below (Germany). Power supply modification to assure that the over-voltage protection circuit will operate properly.
 3325A-9. Serials 1748A-02476 to 1748A-04675. Modification to improve oscillator reliability.

3330A/B AUTOMATIC SYNTHESIZER

- 3330A/B-5A. All serials. Replacement part numbers for LED displays.
 3330A/B-14B. Serials 1313A01918 and below. Correct termination of HP-IB lines on A34 assembly.
 3330A/B-17. All serials. On-site repair service kit for 3330A/B Option 004.
 3330B-16. All serials. Recommended replacement HP-IB A6 board to improve performance.

3435A DIGITAL MULTIMETER

- 3435A-4A. All serials. Front panel switch information.
 3435A-5. All serials. Modification to prevent 20 ohm range drifting out of specification with zero ohms input.
 3435A-6. Serials 1606A07700 and below. Modification to improve high frequency response.

3437A SYSTEM VOLTMETER

- 3437A-4A. Serials 1630A02599 and below. Recommended replacement for IC A2U124.
 3437A-5. Serials 1630A03891 and below. Modification to reduce data propagation delay.
 3437A-6. Serials 1630A03530 and below. Recommended nanoprocessor replacement.

3438A DIGITAL MULTIMETER

- 3438A-5A. All serials. Front panel switch information.
 3438A-6. All serials. Modification to prevent 20 ohm range drifting out of specification with zero ohms input.

3456A DIGITAL VOLTMETER

- 3456A-1A. All serials. On-site service kit (03456-69801) for board level repair.
 3456A-2. All serials. 3456A digital voltmeter product support package (03456-69900) contents and operating instructions.
 3456A-3. All serials. Contents and operating instructions for the 03456-69901 product support package.

3465A/B DIGITAL MULTIMETER

- 3465A-6. Serials 15464A05400 and below. Adjustment procedures for the AC-DC converter.
 3465A-7A. All serials. Front panel switch information.
 3465B-3A. All serials. Front panel switch information.

3466A DIGITAL MULTIMETER

- 3466A-8A. All serials. Front panel switch information.

3467A LOGGING MULTIMETER

- 3467A-3. All serials. Recommended insulator spacer replacement (HP pn 4040-1415).

3476A/B DIGITAL MULTIMETER

- 3476A-5A. All serials. Front panel switch information.
 3476B-4A. All serials. Front panel switch information.

3495A SCANNER

- 3495A-6. All serials. Modifications to improve 3495A/3455A triggering.

3497A DATA ACQUISITION/CONTROL UNIT

- 3497A-3A. Serials 2011A00160 and below. Recommended outguard controller board EPROM to ROM update to improve performance.
 3497A-5. All serials. 3497A product support package (03497-69900) contents and operating instructions.
 3497A-6. Serials 2011A00160 and below. Recommended outguard controller board (03497-66501) when installing the 100 kHz Reciprocal Counter Assembly (Option 060/Field Installation Kit 44426A).

3498A EXTENDER

- 3498A-1. All serials. Modification to prevent intermittent response of digital input option 050 cards (44425A) while in a 3498A extender.
 3498A-2. Serials 2026A00186 and below. Modification to improve +5 volt outguard power supply operation.

3571A TRACKING SPECTRUM ANALYZER

- 3571A-3A. Serials 1435A00100 to 1435A00560. Recommended modification to eliminate 40 MHz oscillations from the + VDC supply.

3582A SPECTRUM ANALYZER

- 3582A-4B. All serials. Modification to improve high transfer function accuracy when servicing and retrofitting the Option 001.
 3582A-10. All serials. 3582A Spectrum Analyzer Service Kit contents and operating instruction.

3586A/B/C SELECTIVE LEVEL METER

- 3586A/B/C-1. All serials. Interpreting intermittent failure of self test step 3-2.
- 3586A/B/C-2. 3586A serials 1927A00231 and below; 3586B serials 1928A00284 and below; 3586C serials 1929A00195 and below. Retrofit for Revision B software.
- 3586A/B/C-3A. All serials. Interpreting auto-cal and self-test failure codes.
- 3586A/B/C-4. All serials. Interpreting intermittent "Err 8" displays.
- 3586A/B/C-5. 3586A serials 1927A00256 and below; 3586B serials 1928A00306 and below; 3586C serials 1929A00206 and below. Modification to cure intermittent digital problems.
- 3586A/B/C-6. All serials. HP-IB verification program listing (9825).

3702B IF/BB RECEIVER

- 3702B-44. Serials 1930U-02731 and below. Improved cooling by retrofitting larger fan.

3710A IF/BB TRANSMITTER

- 3710A-23. Serials 1849U-02471 and below. Improved cooling by retrofitting larger fan.

3721A CORRELATOR

- 3721A-18. Serials 1123U and below and serials 1112A00135 and below. Preferred replacement for Timescale Switch (S10).

3738A OSCILLATOR

- 3738A-4. Serials 1730U-00356 and below. Preferred replacement for YIG OSC.

3738B RF MODULE

- 3738B-1. All serials. Cancelling restored part for YIG oscillator.

3744A BB SWEEPER ACCESSORY

- 3744A-2. Serials 2009U00226 and below. Modification to correct blowing line fuse when instrument operated on 100V or 220V.

3745A/B SELECTIVE LEVEL MEASURING SET

- 3745A/B-13B. All serials. Instructions for installing Option 040.
- 3745A/B-22C. Serials 1812U and below. Preferred replacement of A109 ROM4.
- 3745A/B-49A. 3745A serials 2032U00407 and below; 3745B serials 2030U00237 and below. Modification to eliminate variation in programmable attenuator steps.

3747A/B SELECTIVE LEVEL MEASURING SET

- 3747A/B-20. All serials. Preferred replacement for NPN transistor.
- 3747A/B-24. 3747A serials 2030U00173 and below; 3747B serials 2036U00126 and below. Modification to eliminate variation in programmable attenuator steps.

3770A/B TELEPHONE LINE ANALYZER

- 3770A-42. All serials. Preferred replacement of 4-line to 10-line decoder.
- 3770B-23. Serials 2045U-00591 and below. Modification to ensure enough range in all 20KHz adjustment.
- 3770B-24. All serials. Preferred replacement of 4-line to 10-line decoder.

3771A DATA LINE ANALYZER

- 3771A/B-15B. 3771A serials 2002U-00180 and below. Modification to prevent possible loss of the 2040Hz transmission frequency when frequency shift is selected in the 3771A.
- 3771A/B-19. 3771A serials 2038U-00250 and below; 3771B serials 2046U-00133 and below. Modification to prevent Decade Select Code (L1, L2, L3, L4) toggling intermittently when HP-IB Option 005 is fitted.

3779A/B PRIMARY MULTIPLEX ANALYZER

- 3779A-18A. Serials 2003U-00205 and below. Modification to improve reliability of power supply.
- 3779A-20. Serials 2003U-00205 and below. Protection against loop holding currents.
- 3779A-21. Serials 2028U-00225 and below. Modification to prevent possible corruption of NVM at switch on.
- 3779B-19A. Serials 2005U-00265 and below. Modification to improve reliability of power supply.
- 3779B-21. Serials 2015U-00270 and below. Protection against loop holding currents.
- 3779B-22. Serials 2024U-00300 and below. Modification to prevent possible corruption of NVM at switch on.

3780A PATTERN GENERATOR ERROR DETECTOR

- 3780A-21. All serials. Preventive maintenance to minimize possibility of intermittent failures.

3781B PATTERN GENERATOR

- 3781B-1. Serials 2049U and below. Modification to prevent possible power supply failure at high temperature.
- 3781B-2. Serials 2049U and below. Recommended replacement of 15V rectifier diodes A30CR26-29.

3782B ERROR DETECTOR

- Serials 2049U and below. Modification to prevent possible power supply failure at high temperature.

4140A pA METER/DC VOLTAGE SOURCE

- 4140A-6. All serials. Modification to eliminate pulse noise in AC power line.
- 4140A-7. All serials. Modification to improve auto ranging when the instrument is set to ramp (,) I-V or C-V function.
- 4140A-8. All serials. Modification to improve auto ranging when the instrument is set to staircase (,) I-V function and is measuring a capacitive device.
- 4140A-9. All serials. Modification to improve capacitance offset adjustment.
- 4140A-10. All serials. Modification to improve V_B output abort function.
- 4140A-11. All serials. Modification to correct the status byte state during HP-IB operation.
- 4140A-12. All serials. Elimination of high frequency noise from voltage source outputs.

4140B pA METER/DC VOLTAGE SOURCE

- 4140B-1. Serials 2034J00180 and below. Elimination of pulse noise in AC power line.
- 4140B-2. Serials 2034J00101 ~ 00104, 00107, 00108, 00110, 00111, 00113, 00114. Modification to improve auto ranging when the instrument is set to ramp (,) I-V or C-V function.
- 4140B-3. Serials 2034J00101 ~ 00104, 00107, 00108, 00110, 00111, 00113, 00114. Modification to improve auto ranging when the instrument is set to staircase (,) I-V function and is measuring a capacitive device.
- 4140B-4. Serials 2034J00101 ~ 00104, 00107, 00108, 00110, 00111, 00113, 00114. Modification to improve capacitance offset adjustment.
- 4140B-5. Serials 2034J00101 ~ 00104, 00107, 00108, 00110, 00111, 00113, 00114. Modification to improve V_B output abort function.
- 4140B-6. Serials 2034J00101 ~ 00104, 00107, 00108, 00110, 00111, 00113, 00114. Modification to correct the status byte state during HP-IB operation.

4274A MULTI-FREQUENCY LCR METER

- 4274A-15. Serials 2031J01060 and below. Modification to eliminate illegal DC bias voltage during HP-IB operation.

4275A MULTI-FREQUENCY LCR METER

- 4275A-10A. All serials. New RF filter for rejection of probe generated noise.
- 4275A-12. Serials 2045J01072 and below. Modification to eliminate illegal DC bias voltage during HP-IB operation.

4904A CABLE FAULT LOCATOR

- 4904A-2. Serials 116A04700 and above. Modification to improve grounding.

4960A/B PAIR IDENTIFIER

- 4960A-6. Serials 2032A00500 and below. Recommended replacement for the power amplifier (U42).
- 4960B-5. Serials 2003A01334 and below. Modification to prevent op amp (U41, U48 and U58) oscillation.
- 4960B-7. Serials 2032A02090 and below. Recommended replacement for the power amplifier (U42).

4961B PAIR IDENTIFIER

- 4961B-2. Serials 1737A01230 and below. Recommended replacement power supply IC.

5004A SIGNATURE ANALYZER

- 5004A-1C. Serials 1736 and above. Data probe threshold voltage adjustment and compensation instructions.

5045A DIGITAL IC TESTER

- 5045A-22. All serials. Socket adapter recommended replacement.
- 5045A-24. Serials 1916A and below. Overvoltage protection modification to $\pm 8V$ power supplies.

5062C CESIUM BEAM FREQUENCY REFERENCE

- 5062C-5. Serials 2016A and below. Modification to increase cesium beam tube life by operation at lower output current.

5312A HP-IB INTERFACE MODULE

- 5312A-3A. Instructions for troubleshooting the 5312A using signature analysis.

5328A UNIVERSAL COUNTER

- 5328A-28A. All serials. Revision of frequency response and sensitivity performance tests and operational verification for channel "C" (options 030 and 031).
- 5328A-29A. 5328A/H99, all serials. Revision of Channel C sensitivity performance tests.
- 5328A-30. 5328A/H99, Option 030, serials 2016 and below; H99 serials 2017 and below. Preferred replacement for ABU9 Dual Comparator.
- 5328A-31. 5328A/H99, Option 041, serials 2004 and below; H99 serials 2017 and below. New A12 amplifier shielded-relay (K4) to prevent magnetic interaction with the two adjacent magnet-type REED relays K3 and K5.

5335A UNIVERSAL COUNTER

- 5335A-1B. All serials. 5335A HP-IB verification program (Rev. B) using the 9825A controller.
- 5335A-3. All serials. How to use the service aid board (05335-60013).

5340A FREQUENCY COUNTER

- 5340A-17. All serials. Instructions for replacing the A1 Preamp Assembly.
- 5340A-18. All serials. Instructions for replacing the A2 Preamp Assembly.

5342A MICROWAVE FREQUENCY COUNTER

- 5342A-29. All serials. Improved Option 002 troubleshooting procedure allows analog loop checkout.
- 5342A-30. Serials 1720 and below. Modification to improve operation at high ambient temperatures.

5343A MICROWAVE COUNTER

- 5343A-3. Serials 2108A and below. Method to cure miscounting on instruments with Option 004 (DAC option).
- 5343A-8. Serials 2026 and below. Modification procedures to correct miscounting between 18 and 26.5 GHz.
- 5343A-9. Serials 2026 and below. Modification to improve operation at high ambient temperatures.

5345A ELECTRONIC COUNTER

5345A-9B. HP-IB verification program for 5345A Option 011.
5345A-12B. HP-IB verification program for 5345A Option 011.

5359A TIME SYNTHESIZER

5359A-4. Serials 2036A00331 and below. Modification to help keep the PC boards in their sockets.

5363A TIME INTERVAL PROBES

5363A-3B. All serials. Repair/replacement of the probes using modification kit P/N 05363-60109.

5382A 225 MHz FREQUENCY COUNTER

5382A-2. Serials 2024 and below. Modification to install new metal-cased temperature-compensated crystal oscillator.

5501A LASER TRANSDUCER

5501A-4. All serials. Repair of new high voltage power supply in the event the laser tube fails to light.

6131C DIGITAL VOLTAGE SOURCE

6131C-3. Serials 1934A-00920 and below. Modification to avoid oscillation in bias supplies.

6205B DC POWER SUPPLY

6205B-2-S. Serials 1949A-15876 through 2025A-17875. Modification to eliminate shock hazard when covers are off.

7220A/S GRAPHICS PLOTTERS

7220A/S-3-S. Serials 2047 and below. Modification to eliminate potential shock hazard at the plotter input power receptacle when the power on/off switch is off.

7221A GRAPHICS PLOTTER

7221A-9-S. Serials 2047 and below. Modification to eliminate potential shock hazard at the plotter input power receptacle when the power on/off switch is off.

7221B/S GRAPHICS PLOTTERS

7221B/S-3-S. Serials 2047 and below. Modification to eliminate potential shock hazard at the plotter input power receptacle when the power on/off switch is off.

7225 GRAPHICS PLOTTER

7225A-1. Serials 2050A and above. Modified disassembly procedure.

7240A PLOTTER/PRINTER

7240A-2A-S. Serials 2047 and below. Modification to eliminate potential shock hazard at the plotter input power receptacle when the power on/off switch is off.

7562A LOG VOLTMETER/CONVERTER

7562A-3A. Serials 1937A and below. AC amplifier PCA 07562-80020 obsolete P/N 1820-0083 OP amp. Recommended replacement operational amplifier and PCA.

8555A SPECTRUM ANALYZER

8555A-15. All serials. Instructions for replacing 500 MHz oscillator.

8558B SPECTRUM ANALYZER

8558B-1A. All serials. Instructions for replacing the A11 and A13 Bandwidth Filter boards.
8558B-9A. All serials. Application instructions for the intensity control of HP 8558B Spectrum Analyzer and 180-series oscilloscope mainframe with external horizontal input.

8559A SPECTRUM ANALYZER

8559A-2. Serials 1942A and below. Preferred replacement parts for A10 third converter.
8559A-3. Serials 1951A and below. Modification to prevent intermittent DPM blanking.
8559A-4. Serials 2019A00500 and below. Modification to prevent A7 Frequency Control Board oscillations.
8559A-6. Serials 2019A00720 and below. Recommended replacement attenuator brackets.

8568A SPECTRUM ANALYZER

8568A-26A. All RF section serials. Instructions for correcting intermittent digital operation.

8620C SWEEP OSCILLATOR

8620C-4A. Serials 1933A and below. Option 011 HP-IB installation kit, HP P/N 08620-60154.
8620C-5A. Serials 1933A and below. Elimination of frequency shift in 8620C HP-IB Option 001 with exchange replacement kit HP P/N 08620-60157.

8654B SIGNAL GENERATOR

8654B-1. All serials. Improved performance tests and adjustments using the 8901A.

8656A SIGNAL GENERATOR

8656A-2. Serials 2022A and below. Improved internal RF shielding.
8656A-3. Serials 2026A and below. Improved keyboard response.
8656A-4. Serials 2035A00535 and below. Modification to correct 5 MHz Time Base output.
8656A-5. Serials 2027A and below. Improved Voltage Tuned Filter (VTF) high end operation.
8656A-6. Serials 2032A and below. Improved HF Oscillator lock with external AM.
8656A-7. Serials 2022A and below. Modification to eliminate 500.5 MHz spurs.

8662A SYNTHESIZED SIGNAL GENERATOR

8662A-3. Serials 2021A00420 and below. DCU ROM changes and assembly compatibility to improve performance.

8901A MODULATION ANALYZER

8901A-1. Serials 2032A and below. Software change summary.

9872A GRAPHICS PLOTTER

9872A-11-S. Serials 2047 and below. Modification to eliminate potential shock hazard at the plotter input power receptacle when the power on/off switch is off.

9872B AND 9872S GRAPHICS PLOTTERS

9872B/S-3-S. Serials 2047 and below. Modification to eliminate potential shock hazard at the plotter input power receptacle when the power on/off switch is off.

10023A TEMPERATURE PROBES

10023A-1. All serials. Modification to improve battery life and eliminate incorrect readings.

37203A HP-IB EXTENDER

37203A-1. Serials 2040U00356 and below. Modification to eliminate possible flashing Data Error LED.

59300-10001 HP-IB TEST TAPE

59300-1A. Revision K. List of HP-IB test tapes and instructions for counter-type products from HP Santa Clara Division.

59308A TIMING GENERATOR

59308A-4. Serials 2012A00990 and below. Jumper wire to correct intermittent and/or incorrect HP-IB operation.

59309A HP-IB CLOCK

59309A-6A. Serials 1712A01887 to 1920A02340. Jumper wire modification to correct improper store operation.

64100A LOGIC DEVELOPMENT SYSTEM MAINFRAME

64100A-1. Serials 1924A-00152 and below. Recommended replacement firmware ROMs.
64100A-2. Serials 1924A-00152 to 2033A-00932. Recommended replacement firmware ROMs.

64151A STATIC RAM CONTROLLER

64151A-1A. Serials 1924A and below, Rev. C and Rev. D boards. Modification to prevent incorrect sampling of control and status data in the SIMULATED I/O mode.
64151A-2. Serials 1924A Rev. F boards. Modification to prevent incorrect sampling of control and status data in the SIMULATED I/O mode.

64201-66506 8080/8085 EMULATION CONTROL BOARD

64201A-1. Control board repair numbers 2008 through 2033. Modification so board will recognize 8080 illegal Op Codes.

64250A Z80 EMULATOR SUBSYSTEM

64251A-3. Z80 Emulation Control Board repair numbers 2009A and below. Modification for proper functioning of Emulation System during user DMA.
64252A-3. Z80 Emulator Pod Board repair numbers 2009A and below. Modification for proper functioning of Emulation System during user DMA.

645XX PROM PROGRAMMER

64500A. All serials. PROM programming procedure.

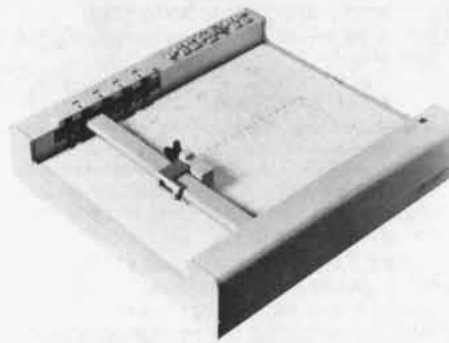
Safety-Related Service Notes

Service Notes from HP relating to personal safety and possible equipment damage are of vital importance to our customers. To make you more aware of these important notes, they are printed on paper with a red border, and the service note number has a "-S" suffix. In order to make you immediately aware of any potential safety problems, we are highlighting safety-related service notes here with a brief description of each problem. Also, in order to draw your attention to safety-related service notes on the service note order form at the back of *Bench Briefs* each appropriate number is highlighted by being printed in color.

3060A Board Test System

System options 200, 201, 202 and 205, serials 1801A00324 and below have the 34196A Scanner power supply AC line reversed wired. This places the fuses in the neutral side of the circuit.

Safety Service Note 3060A-3-S describes the step-by-step procedure for changing the wiring to comply with the National Electric Code.



7220A/S, 7221A/B/S, 9872A/B/S Graphics Plotters

A shock hazard may exist at the power cord socket (or at the male end of the power cord) of the following plotters when the power switch is in the OFF position.

7220A/S serials 2047 and below
 7221A serials 2047 and below
 7221B/S serials 2047 and below
 7240A serials 2047 and below
 9872A serials 2047 and below
 9872B/S serials 2047 and below

If the power switch is OFF the line filter capacitors retain a charge at the power socket that can shock an operator.

To eliminate the possibility of this hazard, it is necessary to install a bleeder resistor across the line terminals of the power socket. Safety Service Notes 7220A/S-3-S, 7221A-9-S, 7221B/s-3-S, 7240A-2A-S, 9872A-11-S and 9872B/S-3-S describes the procedure.



6205B Dual DC Power Supply

The AC and AC common lines are reversed at the line switch on units with serial numbers 1949A15826 thru 2025A17875. This wire reversal does not affect the operation of the unit, and poses no hazard to the operator. Only during service when the covers are removed will this hazard be exposed.

To correct the problem, exchange the gray wire and the white/yellow/gray wire attached to the line switch. Safety Service Note 6205B-2-S provides details and a photo of the correct wire connections.

You may order any of the above listed Safety Service Notes from Hewlett-Packard with the form provided at the back of Bench Briefs.



Service Note Order Form

Instructions

If you want service notes, please check the appropriate boxes below and return this form separately to one of the following addresses.

For European customers (ONLY)

All Others

Hewlett-Packard
Central Mailing Dept.
P. O. Box 529
Van Hueven Goedhartlaan 121
AMSTELVEEN—1134
Netherlands

Hewlett-Packard
1820 Embarcadero Road
Palo Alto, California 94303

NAME _____

COMPANY NAME _____

ADDRESS _____

CITY _____

STATE _____ ZIP _____

- | | | | | | |
|------------------------------------|--------------------------------------|---------------------------------------|------------------------------------|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> 181T/TR-2 | <input type="checkbox"/> 3253A-3 | <input type="checkbox"/> 3498A-1 | <input type="checkbox"/> 3779B-19A | <input type="checkbox"/> 5045A-24 | <input type="checkbox"/> 8555A-15 |
| <input type="checkbox"/> 181T/TR-3 | <input type="checkbox"/> 3312A-4A | <input type="checkbox"/> 3498A-2 | <input type="checkbox"/> 3779B-21 | <input type="checkbox"/> 5062C-5 | <input type="checkbox"/> 8558B-1A |
| <input type="checkbox"/> 339A-7A | <input type="checkbox"/> 3325A-1B | <input type="checkbox"/> 3571A-3A | <input type="checkbox"/> 3779B-22 | <input type="checkbox"/> 5312A-3A | <input type="checkbox"/> 8558B-9A |
| <input type="checkbox"/> 612A-12A | <input type="checkbox"/> 3325A-9 | <input type="checkbox"/> 3582A-4B | <input type="checkbox"/> 3780A-21 | <input type="checkbox"/> 5328A-28A | <input type="checkbox"/> 8559A-2 |
| <input type="checkbox"/> 618C-14 | <input type="checkbox"/> 3330A/B-5A | <input type="checkbox"/> 3582A-10 | <input type="checkbox"/> 3781B-1 | <input type="checkbox"/> 5328A-29A | <input type="checkbox"/> 8559A-3 |
| <input type="checkbox"/> 620B-16 | <input type="checkbox"/> 3330A/B-14B | <input type="checkbox"/> 3586A/B/C-1 | <input type="checkbox"/> 3781B-2 | <input type="checkbox"/> 5328A-30 | <input type="checkbox"/> 8559A-4 |
| <input type="checkbox"/> 651B-9 | <input type="checkbox"/> 3330A/B-17 | <input type="checkbox"/> 3586A/B/C-2 | <input type="checkbox"/> 3782B-1 | <input type="checkbox"/> 5328A-31 | <input type="checkbox"/> 8559A-6 |
| <input type="checkbox"/> 652A-5 | <input type="checkbox"/> 3330B-16 | <input type="checkbox"/> 3586A/B/C-3A | <input type="checkbox"/> 4140A-6 | <input type="checkbox"/> 5335A-1B | <input type="checkbox"/> 8568A-26A |
| <input type="checkbox"/> 1311A-20 | <input type="checkbox"/> 3435A-4A | <input type="checkbox"/> 3586A/B/C-4 | <input type="checkbox"/> 4140A-7 | <input type="checkbox"/> 5335A-3 | <input type="checkbox"/> 8620C-4A |
| <input type="checkbox"/> 1615A-4 | <input type="checkbox"/> 3435A-5 | <input type="checkbox"/> 3586A/B/C-5 | <input type="checkbox"/> 4140A-8 | <input type="checkbox"/> 5340A-17 | <input type="checkbox"/> 8620C-5A |
| <input type="checkbox"/> 1722B-3 | <input type="checkbox"/> 3435A-6 | <input type="checkbox"/> 3586A/B/C-6 | <input type="checkbox"/> 4140A-9 | <input type="checkbox"/> 5340A-18 | <input type="checkbox"/> 8654B-1 |
| <input type="checkbox"/> 1725A-7 | <input type="checkbox"/> 3437A-4A | <input type="checkbox"/> 3702B-44 | <input type="checkbox"/> 4140A-10 | <input type="checkbox"/> 5342A-29 | <input type="checkbox"/> 8656A-2 |
| <input type="checkbox"/> 1742A-1A | <input type="checkbox"/> 3437A-5 | <input type="checkbox"/> 3710A-23 | <input type="checkbox"/> 4140A-11 | <input type="checkbox"/> 5342A-30 | <input type="checkbox"/> 8656A-3 |
| <input type="checkbox"/> 1742A-2 | <input type="checkbox"/> 3437A-6 | <input type="checkbox"/> 3721A-18 | <input type="checkbox"/> 4140A-12 | <input type="checkbox"/> 5343A-3 | <input type="checkbox"/> 8656A-4 |
| <input type="checkbox"/> 1980A/B-3 | <input type="checkbox"/> 3438A-5A | <input type="checkbox"/> 3738A-4 | <input type="checkbox"/> 4140B-1 | <input type="checkbox"/> 5343A-8 | <input type="checkbox"/> 8656A-5 |
| <input type="checkbox"/> 1980A/B-4 | <input type="checkbox"/> 3438A-6 | <input type="checkbox"/> 3738B-1 | <input type="checkbox"/> 4140B-2 | <input type="checkbox"/> 5343A-9 | <input type="checkbox"/> 8656A-6 |
| <input type="checkbox"/> 3060A-2 | <input type="checkbox"/> 3456A-1A | <input type="checkbox"/> 3744A-2 | <input type="checkbox"/> 4140B-3 | <input type="checkbox"/> 5345A-9B | <input type="checkbox"/> 8656A-7 |
| <input type="checkbox"/> 3060A-3-S | <input type="checkbox"/> 3456A-2 | <input type="checkbox"/> 3745A/B-13B | <input type="checkbox"/> 4140B-4 | <input type="checkbox"/> 5345A-12B | <input type="checkbox"/> 8662A-3 |
| <input type="checkbox"/> 3060A-4 | <input type="checkbox"/> 3456A-3 | <input type="checkbox"/> 3745A/B-22C | <input type="checkbox"/> 4140B-5 | <input type="checkbox"/> 5359A-4 | <input type="checkbox"/> 8901A-1 |
| <input type="checkbox"/> 3060A-5 | <input type="checkbox"/> 3465A-6 | <input type="checkbox"/> 3745A/B-49A | <input type="checkbox"/> 4140B-6 | <input type="checkbox"/> 5363A-3B | <input type="checkbox"/> 9872A-11-S |
| <input type="checkbox"/> 3060A-6 | <input type="checkbox"/> 3465A-7A | <input type="checkbox"/> 3747A/B-20 | <input type="checkbox"/> 4274A-15 | <input type="checkbox"/> 5382A-2 | <input type="checkbox"/> 9872B/S-3-S |
| <input type="checkbox"/> 3060A-7 | <input type="checkbox"/> 3465B-3A | <input type="checkbox"/> 3747A/B-24 | <input type="checkbox"/> 4275A-10A | <input type="checkbox"/> 5501A-4 | <input type="checkbox"/> 10023A-1 |
| <input type="checkbox"/> 3060A-8 | <input type="checkbox"/> 3466A-8A | <input type="checkbox"/> 3770A-42 | <input type="checkbox"/> 4275A-12 | <input type="checkbox"/> 6131C-3 | <input type="checkbox"/> 37203A-1 |
| <input type="checkbox"/> 3060A-9 | <input type="checkbox"/> 3467A-3 | <input type="checkbox"/> 3770B-23 | <input type="checkbox"/> 4904A-2 | <input type="checkbox"/> 6205B-2-S | <input type="checkbox"/> 59300-1A |
| <input type="checkbox"/> 3060A-11 | <input type="checkbox"/> 3476A-5A | <input type="checkbox"/> 3770B-24 | <input type="checkbox"/> 4960A-6 | <input type="checkbox"/> 7220A/S-3-S | <input type="checkbox"/> 59308A-4 |
| <input type="checkbox"/> 3060A-12 | <input type="checkbox"/> 3476B-4A | <input type="checkbox"/> 3771A/B-15B | <input type="checkbox"/> 4960B-5 | <input type="checkbox"/> 7221A-9-S | <input type="checkbox"/> 59309A-6A |
| <input type="checkbox"/> 3060A-13 | <input type="checkbox"/> 3495A-6 | <input type="checkbox"/> 3771A/B-19 | <input type="checkbox"/> 4960B-7 | <input type="checkbox"/> 7221B/S-3-S | <input type="checkbox"/> 64100A-1 |
| <input type="checkbox"/> 3060A-16A | <input type="checkbox"/> 3495A-3A | <input type="checkbox"/> 3779A-18A | <input type="checkbox"/> 4961B-2 | <input type="checkbox"/> 7225A-1 | <input type="checkbox"/> 64100A-2 |
| <input type="checkbox"/> 3060A-17 | <input type="checkbox"/> 3497A-5 | <input type="checkbox"/> 3779A-20 | <input type="checkbox"/> 5004A-1C | <input type="checkbox"/> 7240A-2A-S | <input type="checkbox"/> 64151A-1A |
| <input type="checkbox"/> 3200B-6 | <input type="checkbox"/> 3497A-6 | <input type="checkbox"/> 3779A-21 | <input type="checkbox"/> 5045A-22 | <input type="checkbox"/> 7562A-3A | <input type="checkbox"/> 64151A-2 |

READERS' CORNER

Converting Incident and Reflected dBm Readings To VSWR With an HP 25

In the September-October issue of *Bench Briefs* I printed a program submitted by Douglas Hoyer that converted network analyzer measurements to VSWR on an HP 25 calculator. And much to my consternation, a typographical error slipped by.

The following letter shows that BB readers do indeed read and verify the ideas printed in this column.

Editor

Dear Sir,

Being the proud, but slightly antiquated owner of an HP 55 (!) I got a wary eye for calculator programs containing unnecessary steps.

In D. Hoyer's one, I found about eight superfluous steps, plus a couple of errors, unless I am mistaken.

Steps 8 and foll. : multiplying a power in mW by 0.5 (4 steps) then dividing by 50 (3 more steps), eventually results in dividing by 1000 (or EEX 3) (= 3 steps)

Steps 26/31 and 30/32 : storing intermediate results, then recalling them, when one has that beautiful STACK at one's fingertips . . .

Loc. 27 should read "1", not "recall 1".

Loc. 34 : R/S : it would be more convenient to "Goto 00", as inadvertently hitting the R/S key again would upset memory contents, and yield an error.

I include my suggestion, as worked out for an HP 25 or equivalent machine; it turns out to be 30 steps long (45 keystrokes), and saves two memory locations too.

Yours,

J. Eyckmans
Belgium

Store incident dBm in memory location 1
Store reflected dBm in memory location 2

```

01      00  0
02 23 04  store 4
03 24 01  recall 1
04      01  1
05      00  0
06      71  ./
07 15 08  g 10x
08      33  eex
09      03  3
10      71  ./
11 24 04  recall 4
12 15 71  g x = 0
13 13 27  go to 27
14      21  exchange x and y
15 23 05  store 5
16 24 03  recall 3
17      71  ./
18 14 02  f √x
19 23 03  store 3
20      01  1
21      51  +
22      01  1
23 24 03  recall 3
24      41  -
25      71  ./
26 13 00  go to 00 (or 74 R/S)
27      27  exchange x and y
28 23 04  store 4
29 24 02  recall 2
30 13 04  go to 04
  
```

When the program stops, display = VSWR
mem. loc. 1 = dBm incident
2 = dBm reflected
3 = refl. coeff. magn.
4 = incident watts
5 = reflected watts

HEWLETT-PACKARD COMPANY
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Palo Alto, California 94303

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