

The image shows a circular logo with a gold-colored border. The interior is split diagonally from the bottom-left to the top-right. The upper-left portion is red and contains a gold crown emblem. The lower-right portion is black and contains the word "ROYAL" in gold, serif, all-caps letters. A small, dark, circular object is positioned near the center of the diagonal line. The entire logo is set against a dark, metallic background with some light reflections.

THE ROYAL

METAL UPRIGHT

Preface

This compilation exists to help myself, and others, with a quick reference to the Royal all metal upright vacuum cleaner. The reason it is about this particular vacuum, among so many other alternatives, is simply because it is my favorite choice. Everyone needs at least one vacuum, and everyone has their own preferences. If you have any desire to learn about the Royal metal upright, or add to what you already know, this compilation should prove to be indispensable.

Over the years, I've owned only a few vacuums. After getting married, my wife, Lisa, and I went shopping for our first vacuum. This was in 1978. She insisted on an upright, and I didn't have much of a preference either way, so that was fine with me. My only stipulation, was that it be quieter than the Kirby vacuums I grew up with. The noise they generated was grating to me.

We ended up with a Riccar "by-pass" upright. Worked OK as far as I was concerned, and lasted about fifteen years. It was replaced by a Sears Kenmore by-pass upright with separate motors for the brush roller and vacuum. Only had it a few years, and it was pretty heavy for a plastic vacuum. A Sharpe EC-T5970 replaced it and it's still around here somewhere.

We got our first dog, Murphy, a few years later. He is responsible for the need of a better vacuum. It became apparent that our Sharpe was almost unable to remove his English Springer Spaniel fur from our area rugs. It took forever to do what should have been a quick chore. Lucky for me, our shop disposed of a Royal Commercial Model 1030Z. I refurbished it, and found it could take care of the rug fur problem in a snap. Yes, it was very loud, probably louder than the Kirbys I knew growing up, but it got the job done so quickly, it was worth putting up with.

In my search for parts to refurbish that old vacuum, I was constantly directed by Bing and Google, to pages of the forums of "Vacuumland" (<http://www.vacuumland.org/>). 90% of the information I needed was found there. Consequently, I spent a lot of time reading and learning about the Royal I owned, and many other vacuums as well.

I once thought Vacuumland and The Vacuum Cleaner Collector's Club were both founded by Robert Alexander Taber. He is a vacuum collector, and favors very old Electrolux model canisters. He is also owner of the oldest working vacuum cleaner, a "Whirlwind" from 1869! As you can imagine, Vacuumland is the place to go for all vacuum cleaner information. The combined knowledge of the members of the site is unfathomable! I have since learned Vacuumland was not founded by Alex Taber. Here is how the story goes:

"Alex Taber founded the VCCC, and is considered one of the premier historians of vintage vacuums, but Vacuumland is not Alex's site. It actually belongs to the Webmasters, Robert and Fred."

"Vacuumland was started by the VCCC, years ago, using funds from the annual dues. About a year ago, the VCCC's Board of Directors gave up control of Vacuumland to Robert (who started Automatic Washer . org). Vacuumland belongs to Robert and his partner Fred S. who are the webmasters. It now has nothing to do with the VCCC, which is a club for dues paying members to gather at an annual gathering. The

VCCC is not the only vacuum collectors club, but one of several. Many folks on Vacuumland do not belong to any "club" at all." - Tom Gasko

My apologies to Robert & Fred, and a million thanks for maintaining the site. It is one of the internet's jewels!

My vacuum interests are very narrow and limited. I am not a collector, but a vacuum user who wants the best tool for the job, and the knowledge to keep it running. All that particular knowledge can be found at Vacuumland, but is scattered over many topics of discussion, and over many years. I am extremely grateful to Robert & Fred for not only establishing Vacuumland, but for maintaining it, and keeping the archives for so many years. The wealth of information contained there is as relative today, as it was when it was written many years ago.

My particular interest is the Royal Metal Upright, and I've gathered as much information as I can about it. 90% of that information has been gleaned from Vacuumland, and particularly from two of its members, Jeff Schroff (hygiene903), and Benjamin Edge (KirbyClassicIII), both avid collectors.

I won't go into details about why this is my preference, or mention shortcomings of any other vacuums. All vacuums have fans and detractors, and that is a topic for others to discuss. Again, this is merely a compilation of information for the Royal all metal upright.

Table Of Contents

[Preface](#)

[Contents](#)

[The History](#)

[Identification](#)

[The Early Years](#)

[Pre-1980](#)

[1980-1995](#)

[Re-Badge Royals](#)

[Parts](#)

[Royal Ads Through The Years](#)

[Which Model Is Best?](#)

The History

[About Royal Appliance Manufacturing Company \(Royal Appliance Mfg. Co.\)](#)

Copied from RoyalVacuums.com

The first Royal vacuum cleaners were made by the P.A. Geier Company in 1905. This makes us one of the world's oldest vacuum cleaner manufacturing companies. Mr. Geier started producing his metal cleaners by hand in a backyard garage in Cleveland, Ohio. Soon the company grew and moved to a four-story building on 105th Street where it operated two divisions, a cleaner division and a machining division. Besides vacuum cleaners, the company produced mixers, hair dryers and washing machine units.

Vacuum cleaners, though, remained the key product, as the company introduced the industry's first hand-held vac, the "Royal Prince," in 1937. Royal joined most manufacturing companies across the country and switched over to military production during World War II.

Vacuum cleaner shipments remained strong up to 1953 when the P.A. Geier Company was bought by an investment group, the Walter E. Schott Organization. The Schotts renamed the company Royal Appliance Manufacturing. However, the new owners were not wholly committed to the company and decided to dissolve it soon after its acquisition. Royal was then purchased by a group of employees, headed by Stan Erbor, in 1954. The company thrived under Erbor's leadership, moving to Highland Heights, Ohio in 1969 where it expanded and refined all phases of operations. Erbor was active in the company until his death in 1981 at age 80.

In 1981, a small group of investors saw an opportunity to purchase the company and to bring a fresh sales and marketing strategy. With this new leadership, our sales grew from just under \$5 million in 1981 to approximately \$408 million in 2000.

Royal's mission is to be a premier consumer products company. We strive to recognize the needs of our customers and supply them with quality products that solve their cleaning problems. These philosophies have enabled Royal to build brand loyalty derived from strong consumer satisfaction.

[Royal Appliance Manufacturing Company History](#)

Copied from FundingUniverse.com

Best known for its Dirt Devil brand vacuum cleaners, Royal Appliance Manufacturing Company is one of the world's oldest vacuum makers. After languishing for decades, a new management team and a redesigned product line took the firm to the top of the hand-vacuum heap in the late 1980s. Fueled by sales of its devil-red hand-vacuums, Royal rose to the number-three spot among vacuum companies, behind Hoover and Eureka. But Royal's sales and profits declined precipitously in the early 1990s, as the hand-held segment matured and Royal encountered intense competition in the hotly contested upright vacuum market. The company suffered a net loss in 1993 and CEO John A. Balch resigned in mid-1995. He was succeeded by Michael Merriman, the 38-year-old chief financial officer who had come to Royal just three years before. Merriman and his team of "young turks"

hoped to parlay the Dirt Devil brand's 90 percent awareness level into consistent sales and profitability in the mid-to-late 1990s.

Royal was founded as the P. A. Geier Company in 1905. Company namesake Philip Geier established the business in his garage, where he made some of the earliest vacuum cleaners by hand. Geier diversified into washing machines, hair dryers, mixers, and other small electric appliances, and was soon able to move his growing company into a four-story headquarters. In 1937, the company introduced what it called "the industry's first hand-held vac," known either as "the Princess" or the "Royal Prince."

Geier's appliance production continued unabated until World War II, when the company's facility was drafted to make military goods like aircraft fittings, tank transmissions, and even some incendiary devices. Geier continued to make vacuums in the postwar era, expanding his product line to include such eclectic devices as peanut roasters and hydraulic devices.

The company experienced the first of many management shakeups in 1953, when it went bankrupt, was acquired by the Walter E. Schott Organization, and was renamed Royal Appliance Mfg. Co. Widely known as the owners of the Cincinnati Reds professional baseball club, the Schotts were more interested in what would now be called Royal's "breakup value" than in its viability as a manufacturer. In 1954, Stanley E. Erbor led an employee buyout and became president of the rejuvenated company. According to a company history, Royal "thrived under Erbor's leadership," moving to a modernized, suburban headquarters in 1969. Nevertheless, by the late 1970s Royal was little more than a niche player in the national vacuum industry, having eschewed the plastics revolution for its traditionally durable, but costly and awkward metal machines. When Erbor died (reportedly at the company water fountain) in 1979 at the age of 82, the company's fate once again came into question.

Royal had been on the market two years when John A. Balch led a \$4.5 million leveraged buyout of the venerable vacuum manufacturer. Raised in rural Coshocton, Ohio, Balch had graduated from that state's Miami University in 1953 with a degree in accounting and had gone to work for the Arthur Andersen accounting firm. He entered the Navy's officers candidate school in 1958 and returned to Arthur Andersen in 1961 after completing a tour of duty in the Mediterranean. Balch lost his job as an information manager with a medical equipment manufacturer in a 1978 takeover. When the opportunity to purchase Royal arose, Balch borrowed \$40,000, rounded up 12 other investors, and bought Royal from Erbor's estate in 1981.

CEO Balch and his new management team overhauled the company from top to bottom. They started by making slight revisions to the Princess/Prince, but failed to change its metal construction or its high price. Balch quickly changed gears, reserving the heavy-duty Royal brand for the industrial market and creating an entirely new product for the consumer market. His company's second stab at the design resulted in the eye-catching, lightweight, red plastic model dubbed the "Dirt Devil" by Wyse Advertising agency. Although it was a latecomer to the hand vac segment (which was created with Black & Decker's 1979 DustBuster launch), the Dirt Devil's 1984 launch caught a swelling wave of replacement sales. Customers were drawn by the model's low price (about \$30), its old-fashioned styling, deep-cleaning revolving brush, and large capacity. [Continued...](#)

The History According To Jeff Schroff

Although Philip Geier started his company in 1905, he began as a contracting machine shop, and when he began in manufacturing, his first products were parts for punch presses. He built his first vacuum cleaner by hand in a garage in 1910, which was [Tom Gasko's Royal Model 1](#), which you have pictured.

As the company grew they moved to a 4 story building on E. 105th St. I don't know if Philip Geier retired or if he headed the company until he passed away, but he died on Nov. 15, 1942 at his home at 17825 Windward, and Arthur H. Zirketook over as President.

In the first page of the history, the info about the Walter Schott Organization is mostly correct, but [Schotts bought Royal in 1949 instead of 1953](#), and did change the name, but the name they used was the Royal Vacuum Cleaner Co. Then it was bought by a group of 60 P.A. Geier employees in 1953 and reorganized (and renamed) as the Royal Appliance Manufacturing Co. with Stanley Erbor as President and moved to E. 61st St.

One interesting point I might also mention here is that even though the company changed names twice, machines built for Electro-Hygiene (and I think some of the other private labeled brands as well) still showed P.A. Geier Co. on their data plates into the early 60's. May have been to set them apart from Royal. Also, out of all the Royal and Electro-Hygiene machines I have in my collection, only ONE says Royal Vacuum Cleaner Co. on the data plate, all the others either have P.A. Geier Co. or Royal Appliance Manufacturing Co. on the data plate.

I also noticed in these two pages you have two different dates for [Stanley Erbor's death](#). I believe the [1979 date to be correct](#). The later info is all correct as far as I know about the John Balch purchase in 1981, introduction of the Dirt Devil in 1983, and going public in 1991 with 5.7 million shares offered for sale. Other info that I might add to this is that after they went public, new plants were opened in Eastlake, Wickliffe, Euclid, Mentor, and Macedonia, and in 2000, headquarters were moved to Glenwillow in a former Mr. Coffee plant.

Sadly, in 2002 they were acquired by Hong Kong based Technitronic Industries (TTI) for \$105 million. The parent company is now called TTI Floorcare America, and they followed up the Royal purchase by buying Hoover from Maytag in 2007 and Oreck in 2013. Headquarters is still in Glenwillow, but now it's for all three brands. Unfortunately, manufacturing is now done in China.

Electro-Hygiene, Health-Mor, and Good Housekeeper

Application was made to register the Electro-Hygiene trademark on Sept. 20, 1947, and it was registered on Aug. 29, 1950. On Feb. 19, 1953 Electro-Hygiene filed to incorporate a new division, Electro-Hygiene Sales Corporation. Incorporators were Art Frankenfeld (who I've mentioned before), Steve Berczelly (who I got to know quite well when I was selling Electro-Hygiene--he was my boss's father-in-law), and Theo Vradelis (whom I've never heard of). Then in October 1955 a new brand was added to Electro-Hygiene, Electro-Grand. They are identical to the corresponding Electro-Hygiene model, the only difference is the name. The trademark was applied for on Nov. 14, 1955 and registered on June 5, 1956. In March of 1964 Electro-Hygiene and Electro-Grand added sewing machines to their lineup, filing for the trademark on March 17, 1964, and it was registered on June 1, 1965. Not sure about the earlier ones, but by 1974 the sewing machines were rebadged Brother machines. - Jeff Schroff

Royal Nameplates Through the Years

By Benjamin Edge

Have you ever looked at a nameplate on various old Royal vacuum cleaners through the years and ever thought to yourself just how long they used each of these variations?

Prior to 1970, the nameplate was riveted to the underside of the motor assembly (a la Kirby) in the middle of both sets of wheels. On a black background, we see the voltage (115 AC/DC), followed by the serial # cast (format is: (MODEL)-(SERIAL)) onto a silver background, and WATTS: 350 (350 watts divided by 115 volts is 3.2 amps) to the right of the top row. The middle row shows the model # followed by the company (ROYAL APPLIANCE MFG. CO., CLEVELAND, OHIO). And the bottom row shows us the patents then covered, and the text "THIS MACHINE EMBODIES INVENTIONS COVERED BY ONE OR MORE OF THE ABOVE PATENTS. OTHER PATENTS PENDING."

Prior to 1954, the nameplate also listed the company as either "THE P. A. GEIER COMPANY" (before about 1951) and "THE ROYAL VACUUM CLEANER CO." (circa 1951-54).

After 1970, the nameplate changed to one which was applied to the back side of the nozzle by the front wheels. On top, the first things we see are the model # (880, for example) and the company name:

ROYAL APPLIANCE MANUFACTURING CO.
HIGHLAND HEIGHTS, OHIO 44143

The middle row lists the serial number, an example being: 07J-N-15980. The serial # is formatted thus:

0 = calendar year (1970)

7 = decade of calendar year (1970s)

J = calendar year month (September) ("I" was skipped to avoid confusion with the number "1," so "M" is used for the month of December)

N = indicates the line and production shift the vacuum came off of.

15980 = production sequence number.

Next row is the voltage rating (115; 120 after about 1982-83) and the motor rating in watts (400). 400 watts / 115 volts amounts to 3.5 amps. After about 1975, the motor rating was changed to read 3.0 amps.

Next row, we see the list of patents covered in this vacuum to that point, followed by "MANUFACTURED UNDER ONE OR MORE OF THE ABOVE PATENTS - OTHER PATENTS PENDING."

After about 1975-76, the patents were removed from the nameplate, and the motor rating changed to "AMPS 3.0" (later 4.5). (1.2 or 1.8 on the Prince 501, and 8.0 for the canisters/tanks) Newly included information is the Underwriters' Laboratories (U.L.) circle symbol and "CLEANING MACHINE 760G LISTED." "760G" is the U.L. code corresponding to Royal. Prior to this point, the U.L. info was in the form of a decal applied to the near-bottom of the handle assembly, or on a yellow decal applied just right of the nameplate, with the text "CLEANING MACHINE - (U.L. symbol) - 760G LISTED."

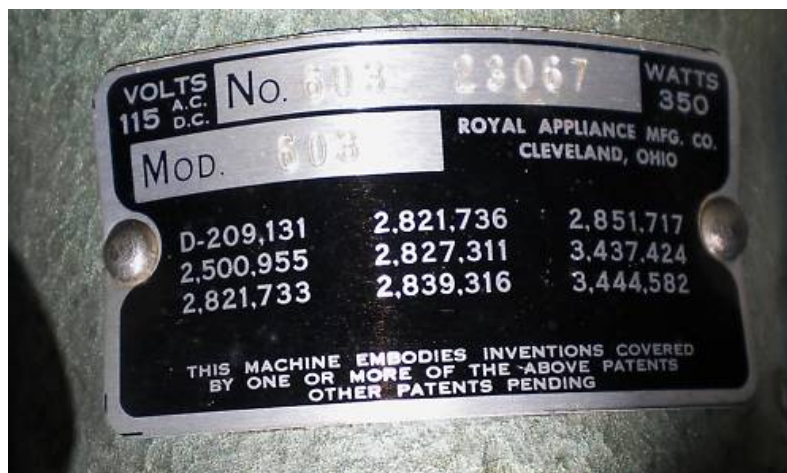
In January 1977, the serial # was revised a bit so that the first two digits are the actual calendar year (e.g. "78" is 1978, instead of "87" which after 1/85, would, of course, indicate year 1987). Then, around September/October 1978, the calendar month code preceded the calendar year (so one sees "C79" for March 1979, instead of "79C").

Then, in January 1985, it changed again: We now see Royal's corporate logo on the top left, followed by "ROYAL APPLIANCE MFG. CO., Cleveland, Ohio 44143. Below all that, we see fields for "MODEL NO.," "SERIAL NO.," "VAC." (Volts AC), "HZ." (Hertz), "AMPS." and then concludes with the U.L. corporate symbol and "CLEANING MACHINE, 760G LISTED." The serial # format now looks like this: A85A001341. It breaks down as: A85 = January 1985 (the calendar month code is a letter from A-L, and this time includes "I" to indicate month September); A = line/shift where vacuum came off of; and 001341 = sequence number.

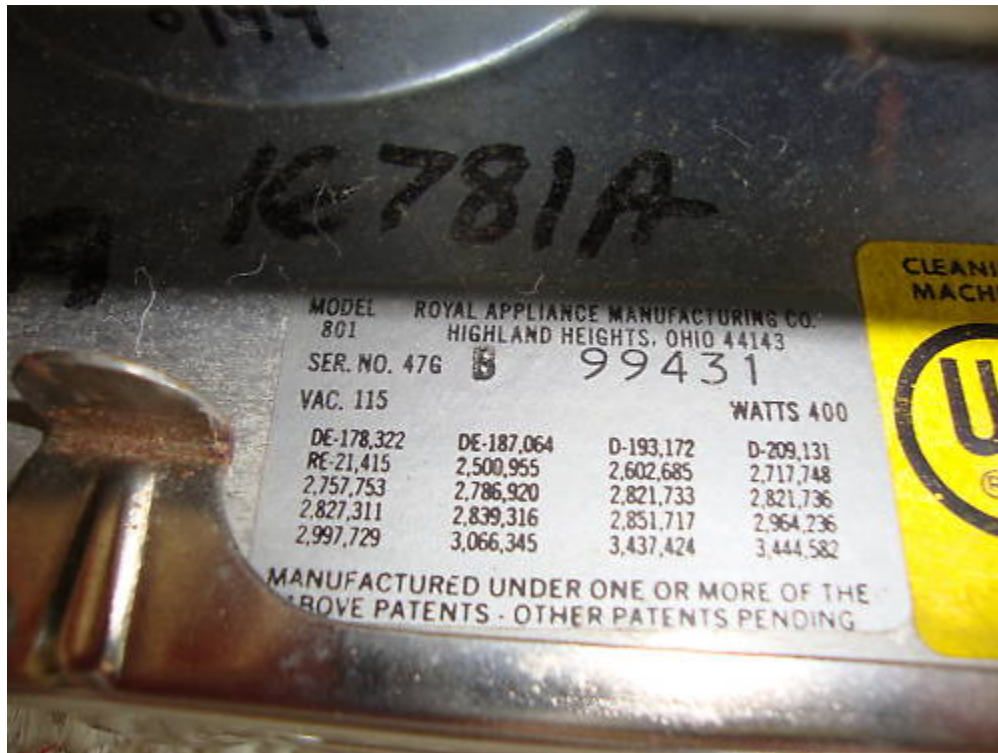
They revised it slightly in January 1986, so that it looks like this: we again see Royal's corporate logo followed by company name and city/zip of corporate HQ's on the top of the decal. Vital statistics remain unchanged (model, serial, volts, etc.). This time, we see "MADE IN U.S.A." before the U.L. information, and the words "CLEANING MACHINE" are removed. All text is in black instead of medium blue. From about 1987-92, the words "MADE IN U.S.A." were also seen below the Royal corporate logo.

I hope this may all help you...

~Ben



1970-1975 Nameplate



From a model 801, dated July 1974.

1975-1984 Nameplate



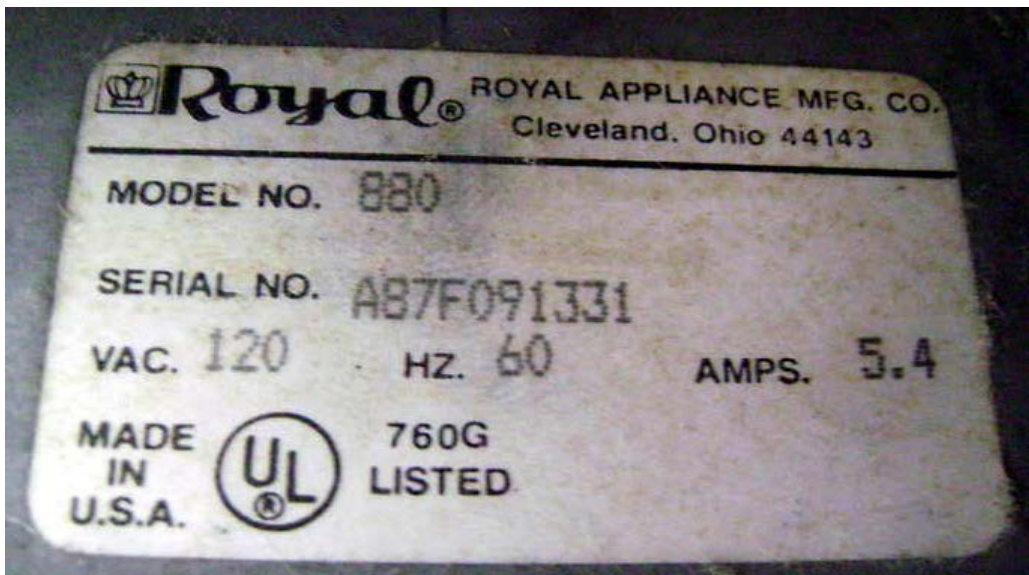
From a model 611, dated October 1983.

1985 Nameplate



From a model 501, dated December 1985.

1986-1987 Nameplate



From a model 880, dated January 1987.

1987-1992 Nameplate



From a model 662, dated April 1989.

The Early Years

Royal Model 1



This is the first model Royal electric vacuum ever made. This one is from 1910. The nozzle is not removable, the cord slips through the handle, and the switch is part of the cord. This allowed the cord to come out through the handle, and the handle (removed from the cleaner) became the cleaning wands for the attachments. Very advanced, considering the crude machines being made at that time by most of Royal's competitors. - [Tom Gasko](#)

Pre-1928 Royal



Prior to 1928, the bag coupling was on the other side of the fan case, and in the mid 30's Royal began producing vacuums with a revolving brush. Here's a pic of a pre-1928 Royal, before I started restoration on it (which isn't finished yet). - Jeff Schroff

Serial #1033063



Model 65



The Model 65 Royal is one of their first revolving brush models, probably made in the mid to late 1930's. Prior to that, all Royals were straight suction machines, and eventually evolved into 3 models, the Standard, the Super, and the Purifier. In 1934, the Purifier became a brand in itself, the Electro-Hygiene, and remained a wholly owned subsidiary of P.A. Geier Co. until 8/19/1941, when it was incorporated as a company in its own right, with Arthur Frankenfeld, F.J. Gottron, and James Farrell as the incorporators. - Jeff Schroff

Pre-1980 Royal Upright Model Chart

By Benjamin Edge

About Household Models



1945-53 models have red bags with gold ROYAL letters/crown with red/black (diagonal sections) metal belt cover (or Adjust-O-Rite) with R-O-Y-A-L letters on black portion and gold crown on red portion.



1953-60 models have red/black bags with red R-O-Y-A-L letters/crown on black portion of bag; metal belt cover (or Adjust-O-Rite) is red/black (half divided) with red R-O-Y-A-L lettering on black half and gold crown on red half.

1961-65 models have red/gray (standard) or red/beige (deluxe) bags with dark red R-O-Y-A-L lettering on red portion of bag; metal belt cover is brushed aluminum with a futuristic-looking "Royal" logo running diagonally up; while those models with the Adjust-O-Rite have white R-O-Y-A-L letters on red (left portion) with the crown logo and "ADJUST-O-RITE" (silver text) on the right portion of plug.

1966-85 models have red crown and R-O-Y-A-L letters on beige (model 801) or light blue (880, 888) bag. The Adjust-O-Rite is the 1960-style design carried over (red plug), but on the 880 and 888 it is colored light blue with red R-O-Y-A-L letters and crown (ADJUST-O-RITE silver text). From 1970-77, the crown and lettering on the bags were outlined.

Starting around 1975, the Adjust-O-Rite plug was redesigned, with the words "Adjust" and "Rite" (or "Adjust-O-Rite" on 1985 and later models, with warning and belt position) comprising the top and bottom halves of the plug (with a line between) in the same font as the then-current Royal logo.

From 1978-85, the bags were redesigned: the crown was the then-current print logo, with big red, futuristic-looking R-O-Y-A-L letters below.

About Commercial Models

1966-77 models are identified by a dark blue bag (shake-out types have no zipper; zippered bag models, for disposable bags, have a "Z" attached to their model numbers, e.g. 608Z, 611Z) with red ROYAL letters and crown, gray stripes and C-O-M-M-E-R-C-I-A-L letters (red text amid gray border).

1978-85 models are identified by a dark blue bag (both types again available) with then-current Royal logo in red, with C-O-M-M-E-R-C-I-A-L seen vertically below that, forming a "T."

Model 131 (1940-?)

Shake-out bag. Headlight. Standard belt cover plug.

Model 153 (1945-85)

No headlight. Standard belt cover plug.

Model 189/215/292/299 (1945-53)

All have standard headlight. #299 has Adjust-O-Rite.

Model 601 (1953-65)

Shake-out bag. Standard headlight. Standard metal belt cover.

Model 602 (1966-85)

Dark blue zippered bag and gray trim with red R-O-Y-A-L lettering and crown. Standard headlight. Adjust-O-Rite plug.

Model 603 (1966-85)

Same as 602 except with standard belt cover plug.

Model 606 (1966-76)

Standard headlight. Adjust-O-Rite.

Model 608 (1977-87)

Deluxe headlight. Adjust-O-Rite.

Model 611 (1977-87)

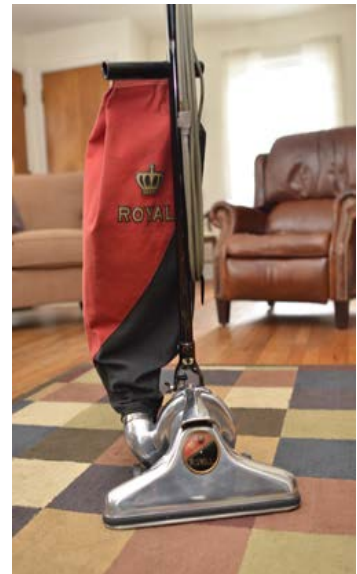
Standard headlight. Adjust-O-Rite.

Model 801 (1953-85)

Toss-out bag. Standard headlight. Adjust-O-Rite.

Model 880 (1966-87) / 888 (1970-81)

Light blue trim. Toss-out bag. Deluxe headlight. Adjust-O-Rite. #888 is similar, but has removable nozzle.



1980-1995 Royal (All-Metal) Upright Model Chart

By Benjamin Edge

Here is my updated version of the post-1980 Royal all-metal upright chart (to 1995, before drop-in motor assemblies were used). There are several models that I lack any knowledge, so please excuse me if any years by model are wrong. Only changes since 1980 will be covered on models originally introduced before 1980.

1984 and older commercial Royals are identified by a dark blue bag with a huge crown, with the "ROYAL" name below that, and the word "COMMERCIAL" (read vertically in the gray part of the bag), with four vertical stripes protruding up to, but not past, the crown. From 1985 to June 1986, the motif changed to the print logo, with "COMMERCIAL" (again seen vertically) below that, to form a "T" shape. All commercial models employ grey bumper/grips and cord, and red Adjust-O-Rite.



July 1986-winter (January to March) 1987 Royal commercial bags were still dark blue in color, but now had the "Royal Five" patch (name is written five times, white text on clear backing), sandwiched by two red rectangles: the Royal crown logo is on the top red rectangle and the duty rating ("COMMERCIAL") is on the bottom red rectangle. On models made after October 1986, the decal on the front of the nozzle is identified by a marquee of Royal logos (white on black), and below that is the duty rating of "HEAVY DUTY COMMERCIAL" in black on white (some of the "Preferred Collection" series used this label since 1989). From 1987 on, all the bags were grey in color (with few models having red bags).

Household models (with some exceptions) made after 10/86 instead had a similar decal used on 1982 and later Prince 501 hand vacuums (a white decal with the company's then-current corporate logo, in dark blue). On all household-type models made after January 1992 (except the 882), a new decal (various colors) was used, which reads "ROYAL - COMMERCIAL QUALITY."

Mid-1987 to 2002 models continued to have the 1986-style logo on the bag, but on commercial models the majority of the outer bags (whether shake-out or with back zipper for disposable bags) were gray in color (some were red or black) and the "Royal Five" portion of the logo is now white on dark blue. The decal on the nozzle is the same. Models with the Adjust-O-Rite, when so specified, were red in color. Between 1988-95 there was also the Duke Series, identified by the red denim bags.

Starting in 1988 with the introduction of models 992 and 993, the Au-Toe-Matic toe-touch height adjustment was offered. Where noted on 1988 and later models, the adjuster type will be described.

From 1993, all Adjust-O-Rite plates had black plastic pull knobs.

Model 602 (1966-1985)

Light blue cotton-twill bag with nylon zipper. Grey bumper/grips. Grey 25' cord. Red Adjust-O-Rite. 3-amp (1980-1981) or 4.5-amp (1981-1985) motor. Single helical motor brushes. Intermediate wheels on all fours. Standard headlight. 2-year warranty.



Model 604 (1985-1987)

Light blue cotton-twill bag with nylon zipper. Blue bumper/grips. Grey 25' cord. Blue Adjust-O-Rite. 4.5-amp motor. Single helical motor brushes. Intermediate wheels on all fours. Standard headlight. 2-year warranty. Also available with 3-wire cord as model 3.604.

Model 606 (1966-87)

Gray and chrome. Standard headlight. Blue (1966-76) or red (1976-87) Adjust-O-Rite plug.

Motor sizes: 350 watt (1966-71), 400 watt (1971-75), 3 amp (1975-85), 4.5 amp (spring/summer 1985), 5.4 amp (fall 1985-87)



Model 607 (1985-1987)

Grey-painted motor housing. 4.5-amp motor.

Model 608 (1977-1987)

3-amp (1980-1981), 4.5-amp (1981-1985) or 5.4-amp (1985-1987) motor. Square headlight.

Model 611 (1977-1987)

3-amp (1980-1981), 4.5-amp (1981-1985) or 5.4-amp (1985-1987) motor. Blanked-out headlight.

Model 618 (1985-1987)

18" wide nozzle for large areas. 6-amp motor. No headlight.

Model 654 (1987-1988)

Grey painted motor housing. 5-amp motor. Standard brushed aluminum belt cover. No headlight.

Model 655 (1990-1995)

Same as model 656 with Adjust-O-Rite. Also available as Duke 7500.

Model 656 (1990-1995)

Same as model 654, but with new 9-blade impeller fan. Also available as Duke 7510.



Model 660/661/662/663 (14" nozzle) (1987-1990; 661 and 663 introduced 1989)
Gray and chrome (bag has red/blue "Royal Five" logo). Adjust-O-Rite (#660, #662). Headlight (#662, #663). 6-amp motor. #661 and #663 have rubber belt cover plate and Au-Toe-Matic 5-position toe-touch height adjustment.

Also available as Duke Series 7600/7610/7620/7630 from 1988-1990 (#7600 and #7620 have Adjust-O-Rite and #7620 and #7630 have headlight). #7610 and #7630 (introduced 1989) have standard belt cover plate and Au-Toe-Matic 5-position toe-touch height adjustment.

Model 680/681/682/683 (18" wide nozzle) (1987-1990)

Same as 660 series but with 18" wide nozzle for larger areas. Adjust-O-Rite and Rite-Hite on models #680 and #682; rubber belt cover plate and Au-Toe-Matic on models #681 and #683 (introduced 1989); headlight on #682 and #683.

Also available as Duke Series 7800/7810/7820/7830 from 1988-1990.

Model 670/671/672/673 (14" wide nozzle) (1990-1995)

Replaced prior 660 series, with new 7-amp motor and 9-blade impeller fan. Adjust-O-Rite and Rite-Hite on #670 and #672; rubber belt cover plate and Au-Toe-Matic on #671 and #673; headlight on #672 and #673.

Also available as Duke Series 7700/7710/7720/7730.

Model 690/691/692/693 (18" wide nozzle) (1990-1995)

Replaced prior 680 series, with new 7-amp motor and 9-blade impeller fan. Adjust-O-Rite and Rite-Hite on #690 and #692; rubber belt cover plate and Au-Toe-Matic on #691 and #693; headlight on #692 and #693.

Also available as Duke Series 7900/7910/7920/7930.

Model 777 (Electro-Hygiene) (1966-1983)

Red cotton-twill bag with nylon zipper (tan after 1983). Grey 35' cord. Grey bumper/grips. Red Adjust-O-Rite with metal pull knob. 3-amp (1980-81) or 4.5-amp (1981-83) motor. Intermediate wheels on all fours. Standard headlight.

Model 784 (1987-1988)

Tan vinyl bag with nylon zipper (with red/clear "Royal Five" logo). Grey 25' cord. Grey bumper/grips. Red Adjust-O-Rite with black plastic pull knob. 4.5-amp motor. Intermediate wheels on all fours. Square headlight. 2-year warranty.



Model 801 (1953-1987)

Tan cotton-twill bag with nylon zipper (from 7/86 with red/clear "Royal Five" logo). Grey 25' cord (later models were pigtail type). Grey bumper/grips. Red Adjust-O-Rite. 3-amp (1980-1981) or 4.5-amp (1981-1987) motor. Single helical motor brushes. Intermediate wheels on all fours. Standard cast headlight. 2-year warranty.

Model 880 (1966-1987)

Blue vinyl bag with nylon zipper (from 7/86 with red/clear "Royal Five" logo). Blue 35' pigtail cord. Blue bumper/grips. Blue Adjust-O-Rite. 3-amp (1980-1981), 4.5-amp (1981-1985) or 5.4-amp (1985-1987) motor. Double helical motor brushes. Wide front wheels and intermediate rear wheels. Square headlight (with deodorizer underneath after 7/83). 5-year warranty.

Model 881 (1987-1988)

Light blue cotton-twill bag with nylon zipper (with red/clear "Royal Five" logo). Grey 25' cord. Blue bumper/grips. Blue Adjust-O-Rite with black plastic pull knob. 4.5-amp motor. Single helical motor brushes. Intermediate wheels on all fours. Standard cast headlight. 2-year warranty.



Model 882 (1990-1995)

Green cotton-twill bag with nylon zipper (with green/gray "Royal Five" logo). Grey bumper/grips. Grey 30' cord. Rubber belt cover plate. 5-amp motor. Wide wheels on all fours. Au-Toe-Matic toe-touch height adjustment. No headlight. 3-year warranty.

Model 883 (1988-1990)

Same as 881 with 5-amp motor, and Adjust-O-Rite has metal pull knob. Rite-Hite screw-type height adjuster. Standard cast headlight. 2-year warranty.

Model 884 (1987-1989)

Blue vinyl bag with nylon zipper (with red/clear "Royal Five" logo). Blue bumper/grips. Grey 25' pigtail cord. Blue Adjust-O-Rite with metal pull knob. 5.4-amp motor. Double-helical motor brushes. Wide front wheels and intermediate rear wheels. Rite-Hite screw-type height adjuster. Deluxe square headlight. 2-year warranty.

Model 885 (1989-1995)

Dark blue Microtex bag with nylon zipper (with medium/dark blue "Royal Five" logo). Dark blue bumper/grips. Dark blue 35' pigtail cord. Dark blue Adjust-O-Rite. 6-amp motor. Double-helical motor brushes. Wide front wheels on all fours. Rite-Hite screw-type height adjuster. No headlight. 3-year warranty.

Model 886 (1987-1995)

Blue Scafitex bag with metal zipper (1987-1991) or dark blue Microtex bag with nylon zipper (1992-1995). Blue (1987-1991) or dark blue (1992-1995) bumper/grips. Blue (1987-1991) or dark blue (1992-1995) 35' pigtail cord. Blue (1987-1991) or dark blue (1992-1995) Adjust-O-Rite. 6-amp motor. Stiff double helical motor brushes. Rite-Hite screw-type height adjuster (886F has Au-Toe-Matic toe-touch height adjuster). Square headlight with deodorizer underneath. 5-year warranty.

Model 887 (1987-1989)

Same as model 886 with 305 attachment kit included.

Model 888 (1971-1984)

Same as model 880 with detachable nozzle.

Model 889 (1987-1988)

Same as model 886/887, but with: Mauve Scafitex bag with metal zipper (has burgundy/dark blue "Royal Five" logo). Burgundy bumper/grips. Burgundy 35' pigtail cord. Red Adjust-O-Rite with metal pull knob. 6-amp motor. Stiff double helical motor brushes. Wide wheels with hubcaps on all fours. Rite-Hite screw-type height adjuster. Square headlight with deodorizer underneath. 7-year warranty.



Model 903 (Electro-Hygiene 1973-1983; Royal 1983-1987)

Red (1973-1982) or tan (1983-1987) vinyl bag with nylon zipper. Red bumper/grips. Red 35' pigtail cord. Red Adjust-O-Rite. 3-amp (1980-1981), 4.5-amp (1981-1985) or 5.4-amp (1985-1987) motor. Stiff double helical motor brushes. Wide wheels on all fours. Square headlight with deodorizer underneath. 7-year warranty.

Model 992/993 (1988-1990)

Model 994 (1990-1995)

Model 995 (1990-1993)

Model 996 (1993-1995) Dark blue Scafitex bag with metal zipper. Dark blue bumper/grips. Dark blue 35' pigtail cord. Dark blue Adjust-O-Rite. 6-amp (992/993) or 7-amp (994-996) motor. Stiff double helical motor brushes. Wide wheels on all fours. Au-Toe-Matic toe-touch height adjuster. Square headlight with deodorizer underneath. 6-year warranty.



Preferred Collection Series

Model 6000 (1988-1990)

Mauve Microtex bag with nylon zipper. Burgundy bumper/grips. Burgundy 35' cord. Burgundy Adjust-O-Rite. 5-amp motor. Double helical motor brushes. Wide wheels with hubcaps on all fours. Rite-Hite screw-type height adjuster. No headlight. 5-year warranty.

Model 6005, 6805 (1989-1991)

Grey Microtex bag with nylon zipper. 6005 has rubber belt cover plate and 6805 has red Adjust-O-Rite.

Model 6103 (1990-1995)

Mauve (1990-1991) or burgundy (1992-1995) Microtex bag with nylon zipper. Burgundy bumper/grips. Burgundy 35' cord. Burgundy Adjust-O-Rite. 6-amp motor. Stiff double helical motor brushes. Wide wheels with hubcaps on all fours. Rite-Hite screw-type (6103) or Au-Toe-Matic toe-touch (6103F) height adjuster. No headlight. 5-year warranty.

Model 7000 (1988-1990)

Same as 6000 with standard cast headlight and 6-amp motor.

Model 8000 (1988-1990)

Same as 7000 with square headlight.

Model 980 (Electro-Hygiene 1971-1983; Royal 1983-1984)

Same as model 888 with detachable nozzle.

Model 9000 (1988-1990)

Mauve Scafitex bag with metal zipper. Other features same as 8000 except with Au-Toe-Matic toe-touch height adjuster, and deodorizer underneath headlight. 7-year warranty.



Model Classic 9005 (1989-1990)

Burgundy Scafitex bag with metal zipper (logo reads "Royal Classic 1989, Quality Since 1905") and trim. Other features same as 9000.

Model Classic 9100 (1990-1995)

Same as model #8000 but with 7-amp motor, 9-blade impeller fan, and also with deodorizer under headlight. Same mauve bag from prior #8000 used through 1991; after 1992 it used the same burgundy "Preferred Collection" bag as model 6103.

Model Classic 9700 (1990-1995)

Same as models 9000 and 9005 but with 7-amp motor and 9-blade impeller fan. In 1992, the decal border no longer protrudes above the Adjust-O-Rite plug.

Anniversary Editions

85103 (1990-1992)

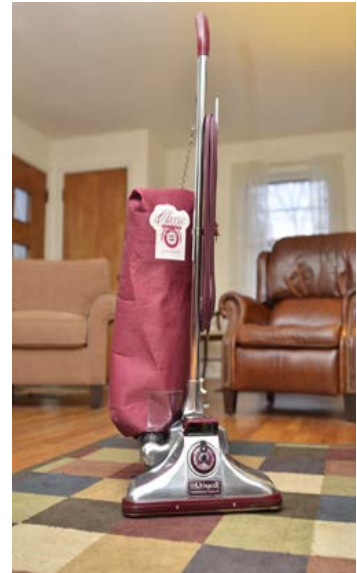
Blue Microtex bag with nylon zipper. Grey bumper/grips. Grey 35' cord. Blue Adjust-O-Rite. 6-amp motor. Wide wheels on all fours. Rite-Hite screw-type height adjuster. 4-year warranty.

8801AE (1992-1994)

Green Microtex bag with nylon zipper. Black bumper/grips. Black 35' cord. Rubber belt cover plate. 6-amp motor. Wide wheels on all fours. Au-Toe-Matic toe-touch height adjuster. 4-year warranty.

89103 (1994-1995)

Red Microtex bag with nylon zipper. Black bumper/grips. Black 35' cord. Rubber belt cover plate. 6-amp motor. Wide wheels on all fours. Au-Toe-Matic toe-touch height adjuster. Standard cast headlight. 4-year warranty.



Re-Badged Royals

Health-Mor Sanitation System

For starters, a Health-Mor Sanitation System. Health-Mor originally began as an agency selling the Scott & Fetzer Sanitation System. When they decided they wanted to sell a machine with their name on it, they contracted with P.A. Geier to build it for them.



Here is a Health-Mor Sanitation System, also part of my collection. Original bag was in bad shape, so the previous owner had the Health-Mor logo embroidered on a replacement bag. You'll notice that other than the nozzle and foot switch it is almost identical to a straight suction Royal. - Jeff Schroff

Electro-Hygiene Model 80

The history of Electro-Hygiene begins with Royal. Although the P.A. Geier Co. (forerunner of Royal Appliance Mfg. Co.) was founded in 1905, they didn't start building vacuum cleaners until 1910. Over the years the Royal brand grew to 3 models, called the Standard, the Super, and the Sanitizer, which had a chamber on it for deodorizing/sanitizing crystals.

Along came a young salesman, Art Frankenfeld, who could sell the Purifier like no other. He eventually struck a deal with Phil Geier, that the Sanitizer would be re-branded as the Electro-Hygiene and be sold exclusively through his Electro-Hygiene Company, which he founded in March of 1934. From then until Electro-hygiene went out of business in 1983, the only vacs built by Royal with the crystal chamber built in was the Electro-Hygiene.

Here is my model 80, which I believe was the very first model of Electro-Hygiene, and also was my first restoration project. The bag and cord are both replacements, but I did put on the original in-line switch when I replaced the cord. Don't know how many of these were built each year, but from the serial # 80-8116 I'm guessing that this one may have been made in 1935 or 1936. - Jeff Schroff



Electro-Hygiene Model 94



This was the second pre-war model, possibly made from the late 30's until 1942. I had originally bought this one as a parts machine but when I saw how well it ran decided to restore it too. The 94 had a hammered finish (not hammertone, but actually hammered) and had the switch in the handle with a pigtail at the motor so the handle could be removed to convert it to a hand vac with the short handle and small bag. This one is all original except for the bag. - Jeff Schroff

Electro-Hygiene Model 2-230



The model 2-230 Electro-Hygiene was a slight variation of the model 230, which was the last straight suction model, built from 1945 to 1954. Other than bag color, I don't really see any difference between the 230 and the 2-230, and I think the 2-230 was probably built in the last few years of the run, 1953 and 54. Mine is all original and includes original attachments and attachment box. Unfortunately, I'm missing the wands, floor brush, and crevice tool. - Jeff Schroff

Good Housekeeper Model 189

Years ago Royal (formerly P.A. Geier) built vacuums for several companies besides their own. Vacuums with the names Good Housekeeper, Regal, Hild, Modern Hygiene, and Stark were all made by P.A. Geier. Hild was a janitorial products company and Stark is a large vacuum dealer in Oregon, both of which wanted vacuums with their own name on them. Anyone could contract with P.A. Geier to have vacuums built with their own name on them.

Before Filter Queen, Health-Mor sold uprights with the Health-Mor name which were made by P.A. Geier, who also built Filter Queen for them until Health-Mor won their famous lawsuit against Lewyt, the proceeds of which were used to build their own factory.

However, the Electro-Hygiene story is different from these others. I'll get into that shortly. But first, here is a pic of my Good Housekeeper model 189. - Jeff Schroff



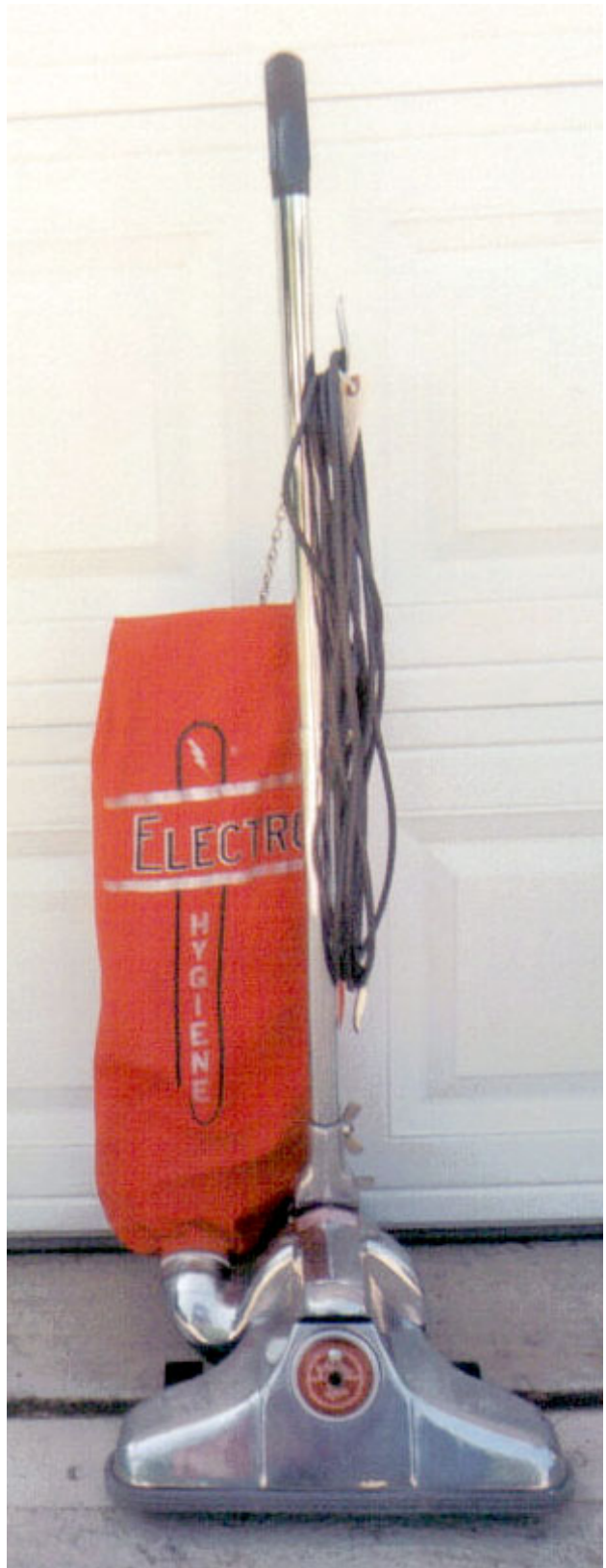


Electro-Hygiene Model 285

Although Royals were built with a revolving brush since the late 30's, Electro-Hygiene didn't have one until the 285 was introduced in 1955. The reason for this was they didn't know what to do with the crystal chamber. Then someone got the idea of making a crystal chamber that would snap on in place of the front cover, and EH could now have a revolving brush! This is one of the early 285's with the shake out bag and rubber handle grip, and is all original except for the cord and the brushroll. - Jeff Schroff

Electro-Hygiene Late Model 285

This one was built in 1979, and is all original except for maybe the brushroll, which is spiral.
- Jeff Schroff





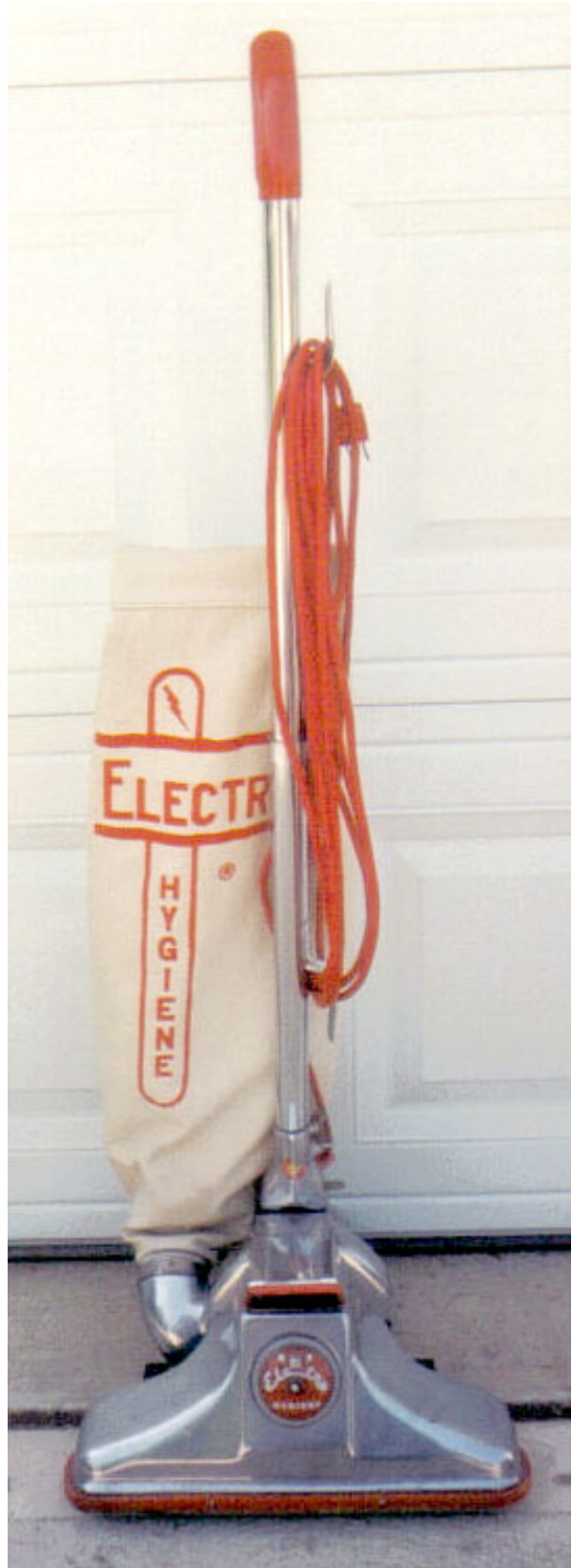
Model 777 Electro-Hygiene

As you can see, there's not much difference between the 777 and the 285, except the nozzle is a bit plainer, the headlight is sheet metal instead of cast, and the motor case (unseen in the pic) is hammertone blue. This one was built in 1972. - Jeff Schroff

Electro-Hygiene Model 880

When the model 880 came out in 1966, it was one of the few models where Royal and Electro-Hygiene shared the same model number. The swing-up headlight made it now possible for the crystal chamber to be placed under the headlight, and this was one of the few differences between the Electro-Hygiene version and the Royal version. The Royal 880 did not have the crystal chamber until Electro-Hygiene went out of business. The other differences were bag graphics and trim color, and the EH version was only made a couple years, being replaced by the 890 in 1969.

- Jeff Schroff





Electro-Hygiene 890

The Electro-Hygiene 890 replaced the 880 in 1969. Not much difference between the two other than the model number. I do believe however, that the bags on both the 880 and 890 have been replaced, as I think the original outer bag on both of these models was cloth, but in the same color scheme as these. This 890 also has a replacement cord on it, but I have replaced it with an original one off another 890 after this pic was taken.

- Jeff Schroff



Electro-Hygiene 903

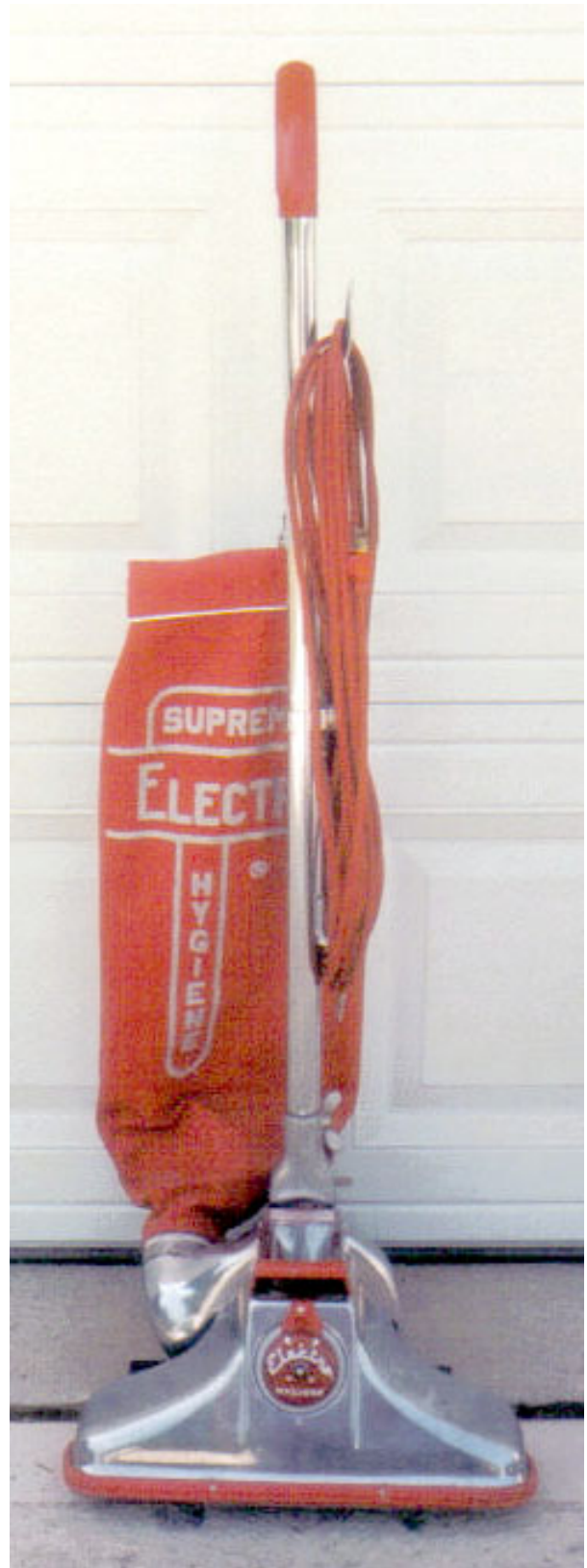
The 903 replaced the 890 in 1973, and was the current model when I was selling them in 1974 and again in 1976. The one pictured here was built in 1983, making it one of the last Electro-Hygiene 903's. It's frequently the daily driver at our house.

I bought it at a thrift store in 2006. It was the deal of the day, as it had a \$55 price tag on it. I took it to the counter and pointed out the adjust-o-rite cover, crystal chamber cover, and belt were missing, and one wheel and the light bulb were broken and offered them \$10 for it. They said "could you go \$15?" and I said "SOLD!" Eventually I was fortunate to add the attachments and extra accessories kit to it. Now all I need is the instruction book to make it complete. - Jeff Schroff

Electro-Hygiene 980

This model, like the Royal 888 and Galaxy Prestige 990, is a rare one, with the removable nozzle similar to a Kirby. This one was built in 1973 and is in immaculate condition. Hoping to find the hose adapter for it, anyone have an extra one?

I'd also like to mention here that all the Electro-Hygiens shown here, except for the model 80, 94, and 903, were part of last summer's acquisition that I mentioned before. Thanks again, my anonymous friend! - Jeff Schroff



Prestige A880



Another rare private-label oddity that deserves mention here is the mustard/gold-colored Imperial Prestige A880 sold during the early part of the '70s (I remember one from both 1973 as well as one from 1971). These were likely sold by Electro-Hygiene dealerships alongside the 890, 903 and 990.

- Benjamin Edge

It was similar to the regular Royal 880 in every regards except the mustard gold color is used in place of the medium blue. Even the Adjust-O-Rite has gold speckles on it. The Imperial Prestige was not sold by Electro-Hygiene dealerships. Remember, I used to sell Electro-Hygiene, and if we ever sold the Imperial Prestige I would have seen at least one at one time or another. We did however, sell the Galaxie Prestige. I'm thinking possibly the Imperial Prestige might have been private labeled for a janitorial products company, as was the Hild. - Jeff Schroff

Stark 5000NA



Branded for Stark's Vacuum Cleaners of Portland, OR, built December 1987. On the bag, it says "STARK DELUXE." On the nameplate, it says STARK - MODEL NO. 5000NA - HOUSEHOLD TYPE - SERIAL L87B001599 - VAC (Volts AC) 120 - AMPS 6.0

Besides this and other Stark's-branded Royal uprights and canisters, I also happened upon some Panther-branded Royal commercial metal uprights. Those ones with the blue denim bags (Royal models 611, 608 and 618) were made from the mid '70s through the mid '80s; those with gray denim bags (Royal models 654, 660 and 680, for example) were produced from the late '80s up to the late '90s. - Benjamin Edge

Easy Clean 506

Does anyone have any info on this vacuum?
Definitely looks like a Royal, the model is 506, according to the pics listed on Ebay it was currently listed on there as NOS? I guess someone purchased, no longer listed. Pretty machine, just curious from what Era this machine is from, doesn't look too old? Funny how just says "EASY CLEAN" on the blue bag... no where on the machine does it say the "royal" brand.
- Hoover78 (Andy)

There is a very old gentleman in Chicago, Illinois, who has a treasure trove in his basement. He thinks these old machines are worth millions. He had his own shop and I from I've been told he had Royal brand these for him specifically. He has many, many, many, many, many....did I say many? He has many of these Royals - actually he has two different models. The cheapo model and the deluxe model. He also has the attachments to them, as well. He wouldn't sell these for some reason. This gentleman also has many other "new in box" machines. The irony of this is that he thinks he can get top dollar for these nearly 40-year old machines. Yes, though they are new, they ARE NOT brand new! They may not all be exactly perfect. So the long and short of it is this: He must have finally gotten his granddaughter to list these on ebay. - Louvac (Louis)



Does anyone remember the Royal Commercial Duke series all-metal uprights? They are identified by their red bags, with a special patch done up in red and blue.

Cross-reference of Duke models (1989-1995):

Duke 7500 / 655 (Rite-Hite infinite height adjustor)

Duke 7510 / 656 (Au-Toe-Matic 5-position height adjustor)

Duke 7610 / 660 (6 amp motor)

Duke 7700, 7700Z / 670, 670Z (Rite-Hite infinite height adjustor and Adjust-O-Rite)

Duke 7710, 7710Z / 671, 671Z (Au-Toe-Matic 5-position height adjustor and standard belt cover)

Duke 7720, 7720Z / 672, 672Z (as 7700 / 670 with headlight)

Duke 7730, 7730Z / 673, 673Z (as 7710 / 671 with headlight)

Duke 7900, 7900Z / 690, 690Z (as 7700 / 670 except 18" wide nozzle)

Duke 7910, 7910Z / 691, 691Z (as 7710 / 671 except 18" wide nozzle)

Duke 7920, 7920Z / 692, 692Z (as 7720 / 672 except 18" wide nozzle)

Duke 7930, 7930Z / 693, 693Z (as 7730 / 673 except 18" wide nozzle)

I'm led to believe that the second digit of the model numbers designates the amperage (654, 655/7500 and 656/7510 being 5 amps, 660 and 7600 being 6 amps and 670-673/7700-7730 being 7 amps; the one exception to this rule are models 690-693 and 7900-7930 which have the same 7 amp motors as the 670/7700 series but have 18" wide nozzles instead of the common 14" wide nozzles). Of course, this analogy does not apply to all Royal model numbers. - Benjamin Edge

Parts

Royal Upright Bags, Fill tubes, ect

By Benjamin Edge

All Royal uprights made prior to about 1990 that used disposable paper bag inserts were of the type "A" style. 1989 and later models used the type "B" paper bag inserts and had a different fill tube.

So the type "A" Royal bag systems were bottom fill, whereas the type "B" bag systems were top fill.

To install the hose on a Royal, like Chad says, the front cover plate is removed from the nozzle. Then, detach the belt from the motor shaft (which drives the revolving brush) using the special black plastic belt lifter tool (or slotted screwdriver). You then hook up the attachment converter for the hose in place of the Adjust-O-Rite or other cover plate. Then hook up the female end of the hose to that and you're set.

There were in fact three Royal models whose heads were detachable like the Kirby units: models 888 (Royal), 980 (Electro-Hygiene) and 990 (Galaxie Prestige). These were produced from 1971 through circa 1985.

Belts & Brush Rolls

By Benjamin Edge

All Royals with the 6 and 7 amp motors, 1992 and earlier, do use the same belt (part #1044260001); however, most all of the 5.4 and lower amperage Royals use a different belt (part #1043260001). 1992 and later models, use part #1672260001.

Brush roll availability is also different, so read this:

Also pay attention to the shape of the ends on your brush roll: if you have a model made before April 1992, it will have square ends on it. Models made after that date will have hex ends on the brush roll.


* 4.5 to 5.4 amp machines could be had with the #2059721000 single-row brush, the #2060221000 beater-bar brush, or the #2080221000 double-row brush (no stiffener). 1990-92 models will use the #2675221000 double-row brush (ball bearings/no stiffener). 1992 and later machines will use the #2655225000 double-rower (hex ends/ball bearings).

* 6.0 and 7.0 amp machines could be had with the #2088221000 double-row brush with stiffener. 1990-92 models will use the #2675227000 brush roll (ball bearings/stiffener). 1992 and later machines will use the #2673273000 double-rower/stiffener (hex ends/ball bearings).

* For 18" wide track uprights (models 618/620, 680/682/7800/7820 and 690/7900 series): pre-1990 models will use the #2061821000 brush roll, 1990-92 models will use the #2695227000 brush roll (ball bearings), and 1992-95 models will use the #2692225000 brush roll (ball bearings/hex ends). All pre-1992 models use the #1044260001 belt; 1992 and later, #1672260001.

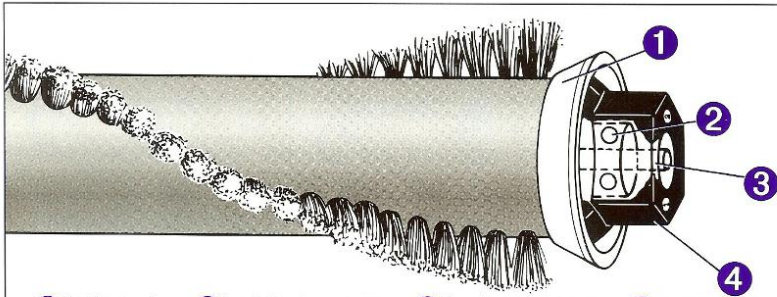
This was from a collection of brochures I had Peter Lewis send to me. Thank you, Peter!

This one is about Royal's brush rolls (the ball-bearing brush rolls were all new at the time) for its metal upright vacuums. Print date: October 1993. Scan 1 of 2 (front)



Introducing Ball Bearing Brushes from Royal.

Our ball bearing system offers a more durable and quieter brush roll.

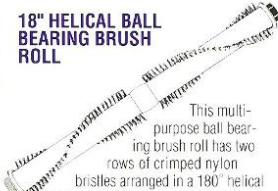
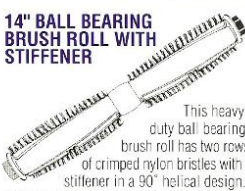
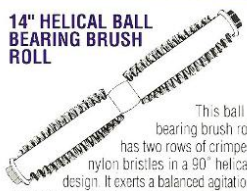
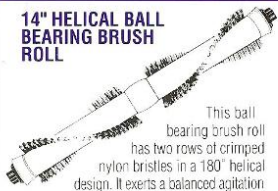
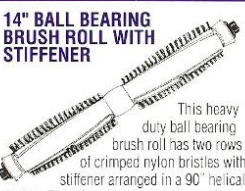
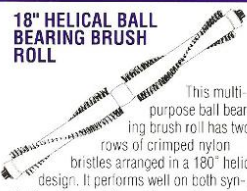



1 Metal thread guard protects the ball bearing from debris.

2 Sealed ball bearing adds durability for longer brush roll life and extra protection from debris.

3 Heavy-duty 1/4" metal pin holds thread guard and ball bearing onto brush roll.

4 Six-sided endcap with color coding for easy replacement. Two position adjustments compensate for bristle wear.

BALL BEARING		
<p>18" HELICAL BALL BEARING BRUSH ROLL</p>  <p>This multi-purpose ball bearing brush roll has two rows of crimped nylon bristles arranged in a 180° helical design. It performs well on both synthetic and natural fibers. Two position adjustments compensate for bristle wear. A metal thread guard protects the bearing from debris. Endcaps are color-coded for easy replacement. Part No. 2-692225-000</p>	<p>14" BALL BEARING BRUSH ROLL WITH STIFFENER</p>  <p>This heavy-duty ball bearing brush roll has two rows of crimped nylon bristles with stiffener in a 90° helical design. The vibrant beating and sweeping action loosens deeply embedded dirt. Two position adjustments compensate for bristle wear. A metal thread guard protects the bearing from debris. Endcaps are color-coded for easy replacement. Part No. 2-673273-000</p>	<p>14" HELICAL BALL BEARING BRUSH ROLL</p>  <p>This ball bearing brush roll has two rows of crimped nylon bristles in a 90° helical design. It exerts a balanced agitation and sweeping action to draw embedded soil and dirt to the surface. Two position adjustments compensate for bristle wear. A metal thread guard protects the bearing from debris. Endcaps are color-coded for easy replacement. Part No. 2-655225-000</p>
SERVICE BALL BEARING		
<p>14" HELICAL BALL BEARING BRUSH ROLL</p>  <p>This ball bearing brush roll has two rows of crimped nylon bristles in a 180° helical design. It exerts a balanced agitation and sweeping action to draw embedded soil and dirt to the surface. Two position adjustments compensate for bristle wear. A metal thread guard protects the bearing from debris. Fits original sleeve bearing nozzles only. Part No. 2-675221-000</p>	<p>14" BALL BEARING BRUSH ROLL WITH STIFFENER</p>  <p>This heavy-duty ball bearing brush roll has two rows of crimped nylon bristles with stiffener arranged in a 90° helical design. The vibrant beating and sweeping action loosens deeply embedded dirt. Two position adjustments compensate for bristle wear. A metal thread guard protects the bearing from debris. Fits original sleeve bearing nozzles only. Part No. 2-675227-000</p>	<p>18" HELICAL BALL BEARING BRUSH ROLL</p>  <p>This multi-purpose ball bearing brush roll has two rows of crimped nylon bristles arranged in a 180° helical design. It performs well on both synthetic and natural fibers. Two position adjustments compensate for bristle wear. A metal thread guard protects the bearing from debris. Fits original sleeve bearing nozzles only. Part No. 2-695227-000</p>



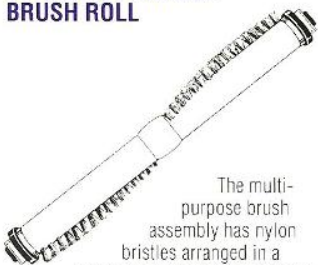
Royal

A Complete Assortment of Royal Brushes.

A brushing action for the correct agitation, sweeping, combing, and cleaning of every carpet type.

SLEEVE BEARING WITH METAL NON-REMOVABLE ENDS

14" MULTI-PURPOSE BRUSH ROLL



The multi-purpose brush assembly has nylon bristles arranged in a spiral formation to draw deeply embedded dirt and soil to the surface. It does an excellent job on both synthetic and natural fibers, as it exerts a balanced agitation and sweeping action. Three position adjustments compensate for bristle wear. Service only for uprights with 5.4 amps and lower. Fits original sleeve bearing nozzles only.

Part No. 2-059721-000

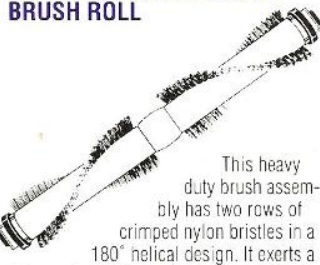
14" HELICAL BRUSH ROLL WITH STIFFENER



This heavy duty brush assembly has two rows of spiral crimped nylon bristles with stiffeners. It exerts a vibrant beating and sweeping action to loosen deeply embedded dirt and remove surface litter. Three position adjustments compensate for bristle wear. Service only for uprights with 6.0 amps and higher. Fits original sleeve bearing nozzles only.

Part No. 2-088221-000

14" HELICAL COMMERCIAL BRUSH ROLL

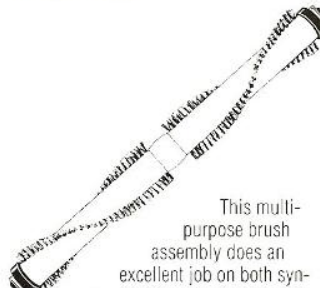


This heavy duty brush assembly has two rows of crimped nylon bristles in a 180° helical design. It exerts a balanced agitation and sweeping action to draw embedded dirt and soil to the surface. Three position adjustments compensate for bristle wear. Fits original sleeve bearing nozzles only.

Part No. 2-801226-000

SLEEVE BEARING WITH REMOVABLE ENDS

18" HELICAL COMMERCIAL BRUSH ROLL



This multi-purpose brush assembly does an excellent job on both synthetic and natural fibers. Two rows of crimped nylon bristles are arranged in a 180° helical design to draw deeply embedded soil and dirt to the surface. Two position adjustments compensate for bristle wear. Wider endcaps protect the bearing from debris. Used on commercial uprights only. Fits original sleeve bearing nozzles only.

Part No. 2-161273-000

OPTIONAL


CARPET PILE LIFTER BRUSH AND BARE FLOOR POLISHER



This over-sized brush assembly fluffs matted carpets and rug surfaces, restoring the plushness with a revolving, lifting and combing action. The over-sized brush assembly is also excellent as a floor waxer, giving a professional-like finish to wood, asphalt tile and linoleum floors.

Sleeve Bearing Part No. 2-012321-000
Ball Bearing Part No. 2-012326-000

14" BERBER BRUSH ROLL



This "quick-change" berber brush assembly is for all berber carpeting where a beater action is not desired. Long, resilient bristles are arranged in a single spiral pattern to produce a smooth sweeping action with little agitation. This provides efficient sweeping, combing and grooming that removes hidden dirt and surface litter.

Sleeve Bearing Part No. 2-088021-000
Ball Bearing Part No. 2-088026-000

UPRIGHT FELT POLISHER PAD



A handy attachment for dusting and polishing hardwood, linoleum, or other hard-surfaced floors. Just snap felt pad into place on the nozzle.

Part No. 2-088050-000

Royal

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BR, Rev. 10/93

They can be divided into three different classes:

Ball Bearing Rolls (New Style With Hex Ends)

- 2-655225-000 - 14" Helical Ball Bearing Brush Roll
- 2-673273-000 - 14" Ball Bearing Brush Roll w/Stiffener
- 2-692225-000 - 18" Helical Ball Bearing Brush Roll

Ball Bearing Rolls (Square Ends - For Original Sleeve Bearing Nozzles Only)

- 2-675221-000 - 14" Helical Ball Bearing Brush Roll
- 2-675227-000 - 14" Ball Bearing Brush Roll w/Stiffener
- 2-695227-000 - 18" Helical Ball Bearing Brush Roll

Sleeve Bearing Rolls (Metal Non-Removable Square Ends - For Original Sleeve Bearing Nozzles Only)

- 2-059721-000 - 14" Multi-Purpose Brush Roll (for machines 5.4 amp or lower)
- 2-801226-000 - 14" Helical Commercial Brush Roll
- 2-088221-000 - 14" Helical Brush Roll w/Stiffener (for 6.0 and 7.0 amp machines only)

Sleeve Bearing Rolls (Metal Removable Square Ends - For Original Sleeve Bearing Nozzles Only)

- 2-161273-000 - 18" Helical Commercial Brush Roll

Optional

- 2-012321-000 - Carpet Pile Lifter Brush and Bare Floor Polisher (w/sleeve bearing)
- 2-012326-000 - (like 2-012321-000 with ball bearing)
- 2-088021-000 - 14" Berber Brush Roll (w/sleeve bearing)
- 2-088026-000 - (like 2-088021-000 with ball bearing)
- 2-088050-000 - Upright Felt Polisher Pad

Royal Motor Upgrades

By Benjamin Edge

According to the latest version of the Royal service manual, the following upgrades can be used:

To upgrade to a 6.0 amp motor, use these following parts:

- #1680001000 Armature (procure from donor 1985 to 1995 Royal)
- #1618002000 Field
- #2088075000 Motor Plate Assembly (procure from donor 1985-95 Royal)
- #2080126000 Rear Bearing (procure from donor 1985-95 Royal)
- #1608005000 Fan
- #1380261000 Shaft

To upgrade to a 7.0 amp motor, use these following parts:

- #1780001000 Armature
- #1618002000 Field
- #2088075000 Motor Plate Assembly (procure from donor 1985-95 Royal)
- #2080126000 Rear Bearing (procure from donor pre-1995 Royal)
- #1608005000 Fan
- #1380261000 Shaft

Parts Needed for Motor Plate Assembly:

- #1884003000 Motor Plate (procure from donor pre-1995 Royal)
- #1880026000 Ball Bearing (procure from donor pre-1995 Royal)
- #1880046000 Tolerance Ring

Part Suppliers For Your Royal Metal Upright:

[Vac Parts Plus](#) (The Henry Company)

800-348-6484

sales@vacpartsplustore.com

Fair Prices, quick shipping. My personal favorite.

[eReplacementParts.com](#)

866-802-6383

Extensive parts lists. Use these lists to find part numbers and search other vendors for better prices. Many numbers are listed as unavailable, but are in stock elsewhere, including [Ebay](#).

[TotalVac.com](#)

978-777-3700

[Vac Parts Warehouse](#)

866-243-2721

info@vacpartswarehouse.com

Have your part number ready to enter in their search box, or you'll find nothing. Their order page rarely works, so be prepared to call your order in.

[Vac Shop USA](#)

Legible Schematics of newer metal uprights.

Model 4008 Parts Diagram and Part Numbers

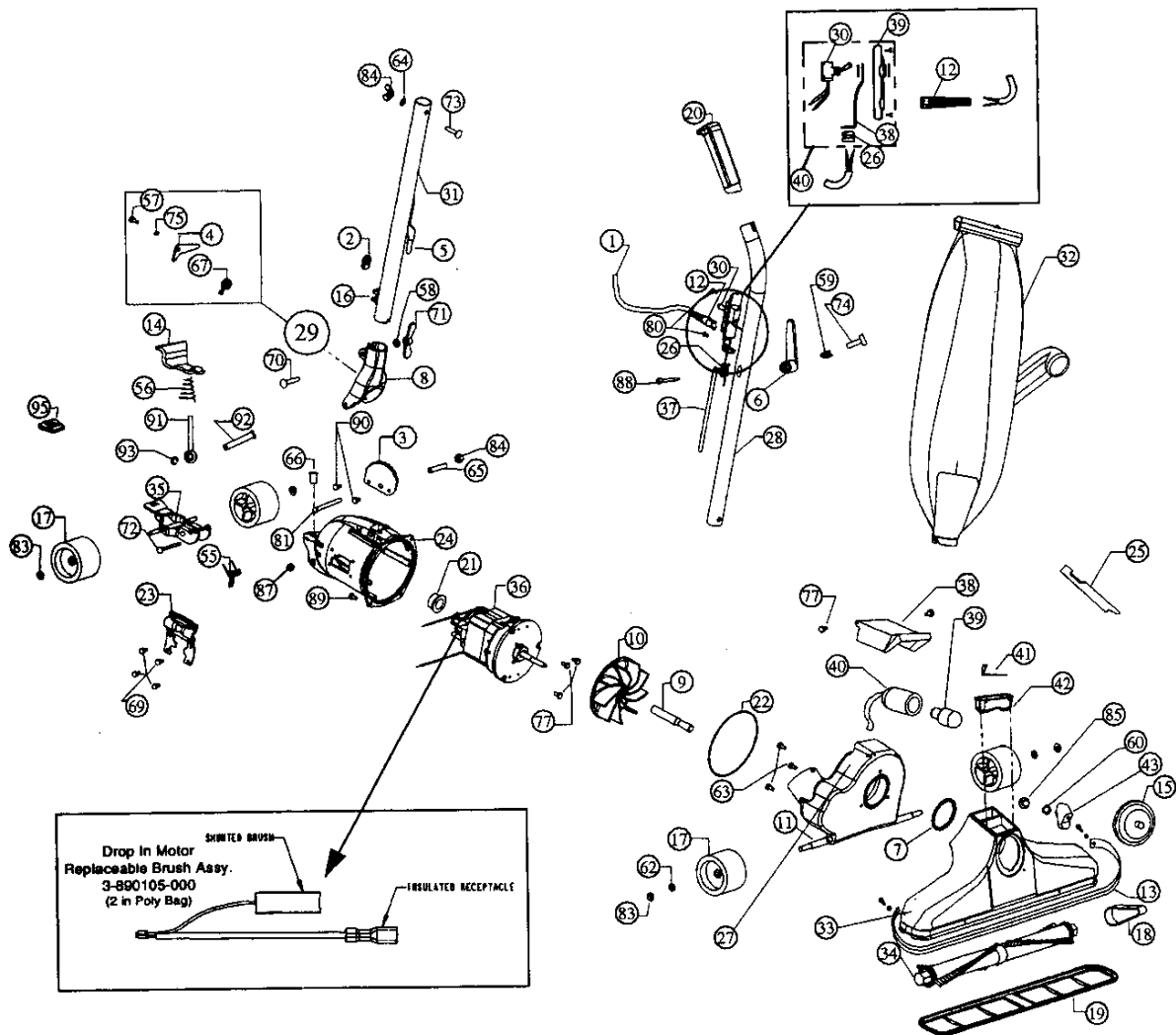


Diagram	Description	Part Number	Substitute
1	Cord plug	1028540800	
2	Grommet	1230324000	
3	Plate	1133716000	
5	Cord hook	1259316000	
6	Cord hook	1259318000	
7	Gasket	1285427000	
8	Fork	1285704000	
9	Extension	1380261000	
10	Shaft	1611101000	
12	Relief	1322305000	
13	Bumper	1801201800	
14	Release	1133715000	

15	Adjuster	2870169800	
16	Clip	1670844600	
17	Wheel	1671705000	
18	Belt 1pk	1672260001	
19	Bottom plate	1672270000	
20	Grip	1801314800	
21	Grommet	1870006600	
22	O ring	1870024600	
23	Plate	1870130P00	
24	Motor housing	1870201000	
25	Lifter	1880262000	
26	Relief	1880305000	
27	Fancase assembly	2880117000	
28	Upper handle assembly includes #6, 20, 80	2891051800	
29	Fork latch	2028580000	2028590000
30	Upright vacuum switch	1163309000	1163302000
31	Handle adaptor assemblyincls # 5 and 16	2891061000	
32	Vac bag 1pk	3090843C01	
33	Nozzle	2080226800	
34	Beater bar	2673274000	
35	Fork axle	2996575000	
36	Motor w/replaceable brushes	2970102000	
37	Cord	1870040600	
38	Plate	2088060800	
39	Bulb	1725629000	
40	Socket	1870065000	
41	Cover	2028563000	
42	Chamber	1880118000	
43	Indicator	3802260600	
44	Switch and plate assembly	2028537000	
45	Switch plate	1249303000	
46	Strain relief stamping	1153339000	

1920



The Trail of Play-Bound Feet

TELL-tale prints of eager little feet bring dirt into the house and dismay to the heart of the busy housewife. But both are speedily put to rout by the drudgery-delivering, time-saving, rug-conserving Royal Electric Cleaner.

Daily experience has proven to thousands of women that the Royal is the easy way to keep treasured rugs free from damaging dirt and soil.

Tracked-in mud, litter, hair, lint and threads on the surface, as well as the deeply trodden-in dirt, all yield to the powerful cleansing air stream, which purifies as it cleans *through and through*.

A large percentage of Royal sales is directly traceable to the recommendations of enthusiastic users.

This desire on the part of thousands of women to have their friends purchase the Royal Electric Cleaner is due to something more than mere pride of possession. It is a tribute to the inherent quality of the Royal, which reflects the earnest purpose of this entire organization to build a cleaner as perfect as is humanly possible.



The business privileged to display this emblem is worthy of your confidence for its fair business dealings and quality of its products.

You can experience the satisfaction of such a cleaner only by trying it in your own home. The P. A. Geier Company, 5101 St.-Clair Avenue, Cleveland, Ohio.

ROYAL
QUALITY SERVICE
ELECTRIC CLEANER
Cleans By Air Alone!



THE SATURDAY EVENING POST

131

ROYAL

ELECTRIC CLEANER

Gets ALL the dirt by Air Alone

HAPPY, tired little youngsters, gone away to Dreamland, dolls and toys forgotten, with no thought whatever of the scattered litter of play-time—left behind for Mother to clear away.

But Mother does not mind. Cleaning is such an easy matter. A few seconds with her Royal, and the disarray is gone.

Women whose homes are Royal cleaned, have few housekeeping problems. Their greatest task—cleaning, is done by the Royal. Rugs are not only kept thoroughly clean, but also absolutely sanitary, because all embedded dirt is removed as well as surface litter.

The other home furnishings—curtains, upholstery, bedding, etc., are also kept in perfect condition with the aid of Royal attachments.

Before you buy any cleaner, have it demonstrated in your home. This is the infallible test, and the test that Royal most desires. If you do not see and try the Royal, you can never have the satisfaction of knowing absolutely that you have bought the best cleaner.

There is a Royal man near you—if you don't know his name—write us.

The P. A. Geier Company, Cleveland, Ohio

BOSTON NEW YORK

Manufactured in Canada for Canadians by

Continental Electrical Co., Ltd., Toronto

Also Manufacturers of Royal Vibrator, Royal Hair Cutter,
Royal Drier, Royal Clothes Washer



ROYAL

ELECTRIC CLEANER

Gets ALL the dirt by Air Alone



"Why I Bought A Royal Cleaner"

By a Royal Owner

First—"Because I was convinced, after a thorough trial in my own home, that the Royal principle of Cleaning by Air Alone is not only the most efficient and thorough, but also best for my rugs".

Second—"Because I found that only the Royal method of sucking air through the rug from beneath was able to remove all the dirt. The Royal Man actually got cupful of dirt out of a rug that I thought was thoroughly clean".

Third—"Because the Royal cleans so much faster than any cleaner I had ever seen—due, I found, to its wide 14-inch nozzle and powerful suction".

Fourth—"Because the Royal is so easy to use. I found in this marvelous cleaner my ideal of effortless cleaning—due, I think, to its light weight, large, easy running wheels, and perfect balance".

Fifth—"Because Royal Attachments can be used so easily and are so practical. I renovate my upholstered furniture and bedding, clean my curtains, hangings, lamp shades, clothing and even our closed car with a great saving of time and money".

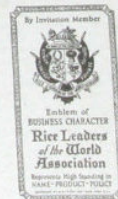
Sixth—"Because of the experience of my friends who had already purchased Royals, and who without exception, recommend this beautiful machine for its efficiency and trouble-free service".

—The experience of this owner is typical of the experience of hundreds of thousands. Women who investigate, choose the Royal.

There is a Royal Man near you who will gladly demonstrate the Royal in your home—if you don't know his name, write us.

The P. A. Geier Company, Cleveland, O.
Boston · New York

Manufactured in Canada for Canadians by
Continental Electrical Co., Ltd., Toronto



ALSO MANUFACTURERS OF THE ROYAL VIBRATOR, HAIR CUTTER, ROYAL DRIER, ROYAL CLOTHES WASHER

The Easiest Cleaning Imaginable



Royal feels light as a feather in your hand—even a little child can guide it and do thorough cleaning.

Such marvelous ease of operation is due to Royal design—large, smooth-running wheels, light weight, wonderful “balance,” comfortable handle grip, convenient switch right at your finger tips.

To use the Royal you simply guide it—its results are so wonderfully thorough and rapid that it banishes forever your cleaning worries.

Until you have tried a Royal in your own home you cannot realize how much time and labor it really will save you.

There is a dealer near you who will gladly lend you a Royal to try. If you don't know his name, write us.

THE P. A. GEIER COMPANY, CLEVELAND, OHIO

Boston

New York

Chicago

Manufactured in Canada for Canadians by Continental Electric Co., Ltd., Toronto.


Also Manufacturers of Royal Vibrator and Royal Dryer

ROYAL
ELECTRIC CLEANER
Gets ALL the dirt by Air Alone



JCFmex


1937





June Lang
20th CENTURY-FOX PLAYER
Featured with Eddie Cantor in
"Ali Baba Goes To Town" *has a*

ROYAL
VACUUM
CLEANER


in her
Hollywood
Home




GOOD
HOUSEKEEPING
INSTITUTE
Approves the
ROYAL
for
ANY Home




THE P. A. GEIER CO., CLEVELAND, O.
CONTINENTAL ELECTRIC COMPANY, LTD.
Toronto, Ont., Canada



ROYAL
VACUUM CLEANERS

give your carpet a lift!




Royal cleaning does more than just pick up surface dirt.


Powerful suction combined with revolving brush action gently lifts your carpet or rug, circulates air and removes deep-down dirt. Whether it's short pile or shaggy carpet... Royals do the job, quickly, effortlessly.

Royal... the lightweight, all-metal cleaner. Attachments for all cleaning... from floor to ceiling.

Quality Cleaners for over 60 years!



ROYAL PONY TANK CLEANER




ROYAL WAND CLEANER



ROYAL APPLIANCE MFG. CO.
HIGHLAND HEIGHTS, OHIO 44143

DECORATING IDEAS *How to make curved iron*

MATERIALS: 1" interior galvanized steel, as needed; silver leaf wall covering (optional); 8d nails; 10" wood joist; silver or compass saw hand saw; drill; masonry chisel; Electrical wiring (1/2" furring strips, octagonal brass pins, octagonal brass pins and covering material) as shown on page 70, the structural problems involved with an area larger than 12' x 12' (draw an isosceles triangle, corners of the triangle, draw in Fig. 1), extending pin or nail into the plywood pin. Measure to the this point. Keeping this rule, draw a curved line with the pencil from a point to the other (Fig. 1). Cut out the angular base piece, use a jig or saber saw on curve. (Use compass if power tools are available.) Using this angle as a pattern, seven more triangles. **Fastening the Curved A** screw or nail two plywood triangles, one atop other, to the floor as you want the curved (see Fig. 2). With a metric stud finder, find the ceiling joists, if a base triangles. Drill the points where the 3/16" screws, fasten the No. 1. If your floor holes with a mason's 1/2" screws. The epoxy cement to glue floor and/or ceiling. **Fastening Shade:** Cut ceiling height. Pass the center line of the long front edge to normal at top ways, as near as possible to the end of a triangle (see Fig. 2). **Installing Electrical Wiring (optional):** Nail 1/2" furring strip to inside edge of the iron stud (see Fig. 2). Flush with the rear. Measure and mark the furring strip desired heights of lamps. To find the forward the joist holes should be, use the depth of porcelain fixture subtract 1/4". Then run the junction to the furring so the marked height that the box face this distance from front edge of the (where the curve

1990



Built Like A 
Light As A 
Works Like A 

This is the unique combination Royal® uses to create our all-metal upright vacuums. The result is a handcrafted vacuum that's remarkably simple to handle, easy to use, and built to last a lifetime. In fact, Royal uprights carry a lifetime warranty on the cast aluminum fan case, nozzle, and motor housing. And when it comes to cleaning, Royal is the king of the hill. Our unique bell-shaped nozzle and curved, double-row revolving brush provide the optimum airflow and agitation to clean even deep-down, ground-in dirt. Experience the difference a Royal can make in your home. Look in the Yellow Pages or call 1-800-321-1134 (in Ohio 1-800-362-5509) for the authorized dealer nearest you.


*Royal also makes the
Dirt Devil® line of vacuums.*



MADE IN
USA ©1989 Royal Appliance Mfg. Co. All rights reserved.

Which Model Is Best?

It's inevitable to wonder after all these years of building basically the same vacuum, which model is the one to own? I'll summarize what I've learned from Vacuumland, and personal hands on experience.

The incredible vacuum ability, and light weight of the Royal metal upright comes at the expense of quiet. An easy rule of thumb would be, more amps equals more noise. When disposable bags were added, more power was needed to overcome the resistance. As the brush rolls became more aggressive over the years, more power was needed to spin them.

Royal switched to "drop-in" motors in the mid '90s. You can distinguish these by lack of external brush access and no rear oil port. They are the loudest of the motors and best performing vacuums. But, only marginally better performing than the previous generation. In a nutshell, the oldest vacuums were quieter, and not quite as fast at cleaning. The newest are the most powerful, and loudest. You'll need to decide how much performance you're willing to sacrifice for quieter operation.

I know, you want to know a specific year and model to pursue. I did too, and finally decided on the 1994 Model 9700. Almost any model of that vintage would hit the sweet spot of great performance and tolerable noise level. But, that's a 20 year old machine that may require service of varying degrees. You may be perfectly happy with a louder unit that needs no service, and gets the job done QUICK! You may appreciate the quieter oldies, that do a great job, but take longer to do it. The early Model 880s come to mind. Parts are still available if you don't mind turning a screwdriver. And, they are all very easy to work on.

Yes, the 9700 was my keeper until I got my hands on a 2.8 amp Model 131. The quiet operation more than compensated for the slower performance. Just don't mind making an extra pass or two, especially when it only weighs 12 pounds.

So, make a list of your priorities, and start shopping. Do you need a foot operated height adjustment? A headlight? Brush stiffeners? Quiet motor? Uncompromising performance? Make that list and prioritize it. The features you settle on will be available on one model or another in that 100 year Royal history. - John Lawrence