INSTRUCTION MANUAL

MODEL 1743

0-35V, 0-6A
DC POWER SUPPLY
With Dual LED Display

BK PRECISION

BK PRECISION
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The **B+K Precision** Model 1743 DC Power Supply is a high quality general purpose dc power source. The power supply provides 0-35 volts dc output, adjustable with both coarse and fine controls for precise setability. The current output is 0-6 amps, adjustable with both coarse and fine current controls. Two large LED meters continuously monitor the output voltage and current. The VOLTAGE meter is green, while the CURRENT meter is red.

The power supply exhibits excellent regulation and low ripple characteristics. The circuit design incorporates a pre-regulator, which greatly reduces internal power dissipation at low output voltages. The styling is both attractive and functional.

The instrument may be used in constant voltage or constant current applications. The crossover from constant voltage to constant current modes is smooth and automatic. LED’s indicate the “CV” (constant voltage) or “CC” (constant current) mode of operation. In constant voltage applications, a current limit may be preset. When load variations cause the current to reach the preset limit, the unit then regulates output current rather than output voltage. Current limits are adjustable from 5% to 100% of maximum. In constant current applications, the maximum voltage may be preset. When load variations cause current to drop below the regulated value, the unit reverts to regulated voltage operation at the preset value.

Reverse polarity protection prevents accidental damage to the power supply from improper connection to an external voltage, and current limiting protects the equipment being powered, as well as the power supply.

The output is isolated from chassis and earth ground, which permits full flexibility of connections. When needed, the (+) or (–) polarity may be strapped to ground, or either polarity may be floated to an external voltage. Two supplies may be connected in series as a 0-to-70 volt power source, or two supplies may be connected in parallel, with suitable balancing resistors, for up to twice the output current.

The power supply is well suited for a wide variety of electrical and electronics applications, including service shops, engineering labs, production testing, school laboratories, and home use by hobbyists.
FEATURES

0-35 VOLTS
Continuously variable over 0-to-35 volt range with coarse and fine controls.

0-6 AMPS
0-to-6 amps current rated for continuous duty at full output current. Coarse and fine current adjust controls.

LABORATORY QUALITY
Excellent regulation, low ripple.

CONSTANT VOLTAGE OR CONSTANT CURRENT
Provides regulated dc voltage output or regulated dc current output. Crossover is smooth and automatic.

LED DISPLAYS
Two large, easy-to-read LED digit displays monitors output voltage and output current, and provides good visibility in bright or low light. Meters allow resolution of 0.1 volt or 0.01 amp.

LED INDICATORS
Act as pilot light and identify mode of operation.

PRE-REGULATOR
Limits internal dissipation for higher reliability.

ISOLATED OUTPUT
Either polarity may be floated or grounded.

OVERLOAD PROTECTION
Fully adjustable current limiting (from 5% to 100% of maximum output current) protects circuit under test and the power supply.

REVERSE POLARITY PROTECTION
Prevents damage to power supply from external voltage of reverse polarity.

STYLING
Modern functional styling. Logical, convenient layout of controls.
SPECIFICATIONS

OUTPUT VOLTAGE
0 to 35 VDC, coarse and fine adjustment

OUTPUT CURRENT
0 to 6 A, coarse and fine adjustment.

CONSTANT VOLTAGE OPERATION
Voltage Regulation
Line (108-132) ≤0.2% +2 mV
Load (no load to full load) ≤0.04% +2 mV
Recovery Time ≤100 µs typical
Ripple Voltage
RMS ≤1 mV
Temperature Coefficient
0° to +40° C ≤300 PPM/° C

CONSTANT CURRENT OPERATION
Adjustable Current Limits
5% to 100%
Current Regulation
Line (108-132 V) ≤0.4% +5 mA
Load ≤0.4% +5 mA
Current Ripple ≤3 mA typical

METERING
Voltmeter 3 digit Green LED Display.
Range 0 to 99.9 V
Accuracy (0.5% + 2 digits)
Ammeter 3 digit Red LED Display.
Hi Range 0 to 9.99 A
Accuracy (0.5% + 2 digits)

POWER REQUIREMENTS
Domestic: 120 VAC ±10%, 60 Hz
International: 120, 220, 230, 240 VAC, 50/60 Hz

POWER CONSUMPTION
Approximately 420 Watts or less at full load

PROTECTION
Reverse polarity protection; current limiting

TEMPERATURE RANGE
Operation 0° to +40° C ≤75% R.H.
Storage −15° to +70° C ≤85% R.H.
SPECIFICATIONS

DIMENSIONS (H x W x D)
5.7” x 10.5” x 15” (145 x 267 x 381 mm)

WEIGHT
24 lb. (10.4 kg)

ACCESSORIES SUPPLIED
Spare Fuse
Instruction Manual
CONTROLS AND INDICATORS

INDICATORS

Either the "CC" or "CV" and the LED indicators will be lit whenever the unit is operating, thus serving as a pilot light. The unit automatically changes from CV to CC operation when the preset current limit is reached.

1. **C.C. (Constant Current) Indicator.** Red LED lights in constant current mode. Unit regulates output current at value set by **CURRENT** controls.

2. **C.V. (Constant Voltage) Indicator.** Green LED lights in constant voltage mode. Unit regulates output voltage at value set by **VOLTAGE** controls.

3. **GREEN LED Display.** 3 digit display continuously monitors voltage.

4. **RED LED Display.** 3 digit display continuously monitors current.

VOLTAGE CONTROLS

5. **Coarse Control.** Coarse adjustment of output voltage. Read value on **GREEN LED** display.

6. **Fine Control.** Fine adjustment of output voltage. Read value on **GREEN LED** display.

CURRENT CONTROL

7. **Coarse CURRENT Control.** Adjusts current limit in constant voltage mode. Adjusts constant current value in constant current mode. Current can be read from **RED LED** display.

8. **Fine Control.** Fine adjustment of current limit or current value. Current can be read from **RED LED** display.

POWER CONTROLS

9. **ON-OFF Switch.**

OUTPUT TERMINALS


11. **GND Terminal (接地).** Earth and chassis ground.

12. "−" Terminal (Black). Negative polarity output terminal.

REAR PANEL CONTROLS

13. **Fuse.**

14. **Power Cord.**
Figure 1. Front Panel Controls and Indicators.

Figure 2. Rear Panel
OPERATING INSTRUCTIONS

SAFETY PRECAUTIONS

Use only a polarized 3-wire ac outlet. This assures that the power supply chassis, case, and ground terminal are connected to a good earth ground and reduces danger from electrical shock.

There is little danger of electrical shock from the power supply output, which produces a maximum of 35 volts dc. However, there may be great danger of electrical shock if the power supply output is connected to an external high voltage. Some equipment being powered may contain high voltage and present a serious hazard. Observe caution. If the power supply output is floated (referenced to a voltage rather than earth ground) turn off the power supply and the equipment under test when making connections. Never float the power supply to a potential greater than 100 volts peak with respect to earth ground.

EQUIPMENT PRECAUTIONS

Avoid using the power supply in ambient temperatures above +40°C. Always allow sufficient air space around the heat sink at the rear of the power supply for effective radiation to prevent internal heat build-up.

Although the power supply is protected against reverse polarity damage, the circuit being powered may not include such protection. Always carefully observe polarity; incorrect polarity may damage the equipment under test.

Do not exceed the voltage rating of the circuit being powered. Most transistors and integrated circuits will not withstand a voltage of 35 volts.

There is no need to worry about voltage spikes or overshoot damaging the equipment under test. The voltage between the output terminals of the power supply never exceeds the preset value as the POWER switch is turned on or off.

HOOK-UP

1. Turn off the power supply and the equipment to be powered during hook-up.

2. Connect the positive polarity of the device being powered to the red (+) terminal of the power supply.

3. Connect the negative polarity of the device being powered to the black (−) terminal of the power supply.

4. Fig. 3 illustrates the grounding possibilities.

   a. If the negative polarity of the equipment or circuit being powered is also the chassis or common, it may be grounded to earth by strapping the black (−) terminal to the green (⇔) terminal as shown in Fig. 3A.

   b. Similarly, the positive polarity can be grounded by strapping the red (+) terminal to the green (⇔) terminal as shown in Fig. 3B.

   c. If an earth ground reference is not required, the configuration of Fig. 3C may be used. The scheme in Fig. 3C should also be used where it is not known whether the chassis is common with either the positive or negative polarity.
Figure 3 (A and B). Grounding Possibilities.
Figure 3 (C and D). Grounding Possibilities.
d. If the chassis or common of the equipment being powered is separate from both the positive and negative polarity power inputs, use the connection shown in Fig. 3D.

5. Observe proper polarity. If the circuit being powered is not equipped with reverse polarity protection, damage to the circuit can result from reverse polarity. Use color coded hook-up leads, for convenience in identifying polarity, red for (+) and black for (−).

6. Make sure that the hook-up leads offer sufficient current capability and low resistance between the power supply and the circuits being powered.

**TYPICAL CONSTANT VOLTAGE OPERATION**

1. Before connecting the device to be powered to the power supply, determine the maximum safe load current for the device to be powered and set the current limit value (see “Setting Current Limit” procedure in this section).

2. Set Fine VOLTAGE control to center and Coarse VOLTAGE control to minimum (fully counterclockwise).

3. Turn off power supply and connect it to the device to be powered (see “Hook-Up” procedure in this section).

4. Turn on POWER switch. The CV indicator should light.

5. Increase the VOLTAGE setting until the Voltage LED display reads the desired value. The Fine control permits easier setting to a specific value.

6. Note the load current on the Current LED display.

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Figure 4. Typical Constant Voltage Operation.
7. If the load current exceeds the preset current limit, the CV indicator will go off and the CC indicator will light. In this case, the power supply automatically switches to the constant current mode, and further rotation of the VOLTAGE control will not increase the output voltage.

**SETTING CURRENT LIMIT**

1. Determine the maximum safe current value for the device to be powered.

2. Temporarily short the (+) and (−) terminals of the power supply together with a test lead.

3. Rotate the Coarse VOLTAGE control away from zero sufficiently for the CC indicator to light.

4. Adjust the Coarse and Fine CURRENT control for the desired current limit. Read the current value on the Current LED display.

5. The current limit (overload protection) has now been preset. Do not change the CURRENT controls settings after this step.

6. Remove the short between the (+) and (−) terminals and hook up for constant voltage operation.

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**Figure 5. Setting Current Limit.**
OPERATING INSTRUCTIONS

TYPICAL CONSTANT CURRENT OPERATION

1. Before connecting the device to be powered to the power supply, determine the maximum safe voltage to be applied and set the VOLTAGE controls to obtain that voltage reading on the Voltage LED display.

2. Determine the desired constant current value.

3. Set the Coarse and Fine CURRENT controls to minimum (fully counterclockwise).

4. Turn off the power supply and connect it to the device to be powered.

5. Turn on the power supply. The CC indicator should light.

6. Increase the CURRENT control setting until the desired constant current value is read on the display, or set the current limit in advance (before connecting the load) as prescribed in the earlier “Setting Current Limit” procedure.

7. If the load current drops below the constant current value, the CC indicator will go off and the CV indicator will light. In this case, the power supply automatically switches to the constant voltage mode, and further rotation of the CURRENT controls will not increase the output current.

Figure 6. Typical Constant Current Operation.
CONSTANT VOLTAGE/CONSTANT CURRENT CHARACTERISTIC

The working characteristic of this power supply is called a constant voltage/constant current automatic crossover type. This permits continuous transition from constant current to constant voltage modes in response to the load change. The intersection of constant voltage and constant current modes is called the crossover point. Fig. 7 shows the relationship between this crossover point and the load.

For example, if the load is such that the power supply is operating in the constant voltage mode, a regulated output voltage is provided. The output voltage remains constant as the load increases, up until the point where the preset current limit is reached. At that point, the output current becomes constant and the output voltage drops in proportion to further increases in load. The crossover point is indicated by the front panel LED indicators. The crossover point is reached when the CV indicator goes off and the CC indicator comes on.

Similarly, crossover from the constant current to the constant voltage mode automatically occurs from a decrease in load. A good example of this would be seen when charging a 12-volt battery. Initially, the open circuit voltage of the power supply may be preset for 13.8 volts. A low battery will place a heavy load on the supply and it will operate in the constant current mode, which may be adjusted for a 1 amp charging rate. As the battery becomes charged, and its voltage approaches 13.8 volts, its load decreases to the point where it no longer demands the full 1 amp charging rate. This is the crossover point where the power supply goes into the constant voltage mode.

Figure 7. Constant Voltage/Constant Current Characteristics

CONNECTING TWO POWER SUPPLIES IN SERIES

Two Model 1743 power supplies may be connected in series to provide a variable 0-70 volt output. In this configuration, two 1743's provide up to 6 amps. See Fig. 8 for the connection scheme.

When connected in series, the VOLTAGE controls of each power supply exercise control over a 0-35 volt range. Add the two LED readings together to determine the total output voltage, or connect an external voltmeter across the load.

Load current may be monitored from either supply; the readings will be identical since they are connected in series. Also, since the supplies are connected in series, it is only necessary to set the current limit on one of the supplies; the other may be set for maximum.
Output voltage equals sum of both voltmeters

Read output current from either ammeter, both read identically.

Figure 8. Connecting Two Power Supplies in Series.
Figure 9. Connecting Two Power Supplies in Parallel.
OPERATING INSTRUCTIONS

CONNECTING TWO POWER SUPPLIES IN PARALLEL

Two power supplies may be connected in parallel to double the maximum load current. In this configuration, two 1743's will provide a variable 0-35 volt output at up to 12 amps (heavier gauge hook-up leads are advisable). Current equalizing resistors must be used as shown in Fig. 9. However, the protective current limiting feature will prevent damage if the current is temporarily unbalanced during set-up.

When connected in parallel and operating in the constant voltage mode, determine the total load current limit and preset the current limiting for each power supply to half the total load current value. Then when the load is connected, set the VOLTAGE controls on the two power supplies for equal voltage readings. This should also provide approximately equal current from each supply. Add the two current readings together for total load current, or connect an external ammeter in series with the load.

If the current equalizing resistors are not well matched, it is preferable that the voltages be slightly unbalanced to achieve current balance. Be sure that the supplies are adequately balanced so that both remain in the CV mode.

When connected in parallel and operating in the constant current mode, the VOLTAGE controls of both supplies should be preset to the same value. Then when the load is connected, the CURRENT controls of the two supplies should be adjusted for approximately equal current from each unit. Be sure that both supplies remain in the CC mode.
APPLICATIONS

GENERAL

The Model 1743 power supply performs a very wide variety of applications in electrical and electronics servicing, engineering laboratories, manufacturing and testing facilities, schools, and home hobbies. The power supply output is fully adjustable from 0 to 35 volts, and 0 to 6 amps. This supply is suitable for most applications requiring a dc power source.

ELECTRONICS SERVICING

Most electronics troubleshooting and repair is performed on a test bench. This power supply can provide the dc power source to operate a module or circuit board on the test bench when it is removed from its parent equipment. It can be used to power portable, battery-operated equipment and check the effect of low battery voltage. It can power vehicular equipment such as tape players, auto sound systems, CB radios, etc. on the test bench.

Most automobiles and other vehicles use 12-volt electrical systems. Although the electrical system is normally referred to as a 12-volt system, actual battery voltage when fully charged is approximately 14 volts. The power supply may be set to 14 volts for servicing equipment from vehicles with 12-volt electrical systems. Some trucks use a 24-volt electrical system; bench testing of equipment from these systems should be performed at 28 volts.

Some servicing applications require the injection of a variable dc voltage for certain tests, such as checking the effect of AGC bias in a television receiver. This requires an isolated dc power supply, such as the Model 1743. The equipment being tested may contain its own power supply and operate from ac power. A dc voltage may already be present in the circuit. One polarity of the power supply output is floated to an appropriate point in the circuit, such as the emitter of a transistor. The other polarity of the power supply output is then applied to another point in the circuit, such as the base of that transistor. Varying the power supply voltage then varies the dc bias on the stage, and the effects may be noted. A series limiting resistor is often used to protect the circuits from overdissipation.

ELECTRONICS MANUFACTURING

In electronics manufacturing facilities, the power supply is often used as a dc power source while testing and adjusting modules, subassemblies, and complete units in the production and assembly area or in the quality control area. The instrument could be used in incoming inspection as a dc power source for testing purchased components and subassemblies.

This power supply is particularly well suited for manufacturing applications because of its ease of operation and its continuous duty rating. When load current or total power dissipation are among the main characteristics to be measured, the total load current and voltage are instantly displayed on the two meters. The current limit can be set so that all units which do not meet the load current specification will cause the CC indicator to light, and the unit can be rejected.
APPLICATIONS

ELECTRONICS DESIGN LAB

The technician or engineer working in an engineering laboratory requires a dc power supply to power breadboard and prototype circuits. This power supply is ideal because it monitors both current and voltage simultaneously, limits current to protect the circuit, is adjustable over a wide range, and has excellent regulation and very low ripple.

Use of the instrument in an engineering laboratory is very similar to that described for servicing electronics equipment and modules, except that lower currents may be prevalent when powering individual circuits. The current limiting feature is very valuable in this application because it can protect unproven circuits from damage.

ELECTRONICS EDUCATION

The student in an electronics curriculum may use the power supply for powering equipment and circuits as previously described for all other applications. In addition, the power supply can be used in the classroom laboratory to conduct experiments in fundamental electronics. In learning Ohm's law, for example, the relationships of resistance, current, and voltage are vividly demonstrated by the use of a power supply. Being able to observe both the current and voltage meter simultaneously is a great aid in such experiments.

BATTERY CHARGING

The power supply can be used as a battery charger to restore the charge in rechargeable batteries such as lead-acid, nickel-cadmium, and some alkaline types. Refer to the battery manufacturer's charging specifications for proper voltage and current settings. Charging information is sometimes printed on the batteries. Battery charging, at least initially, requires the constant current mode of operation. Before connecting the power supply to the battery, preset the VOLTAGE controls to the fully charged terminal voltage specified by the battery manufacturer. Turn off the power supply while connecting the battery. Observe proper polarity and connect as for constant current operation. Adjust the CURRENT control for the maximum charging current specified by the battery manufacturer (If the maximum charging current is greater than the power supply's maximum load current, set the CURRENT control to maximum). The CC indicator will light and the battery will charge at the preset current limit. As the battery approaches full charge, its terminal voltage will approach that of the power supply output and the charging current will taper off. The power supply may automatically switch to CV (constant voltage) operation. When this occurs, the power supply will continue to provide a trickle charge.
MAINTENANCE

WARNING

The following instructions are for use by qualified personnel only. To avoid electrical shock, do not perform any servicing other than contained in the operating instructions unless you are qualified to do so.

FUSE REPLACEMENT

If the fuse blows, the CV or CC indicators will not light and the power supply will not operate. The fuse should not normally open unless a problem has developed in the unit. Try to determine and correct the cause of the blown fuse, then replace only with a fuse of the correct rating as listed below. The fuse is located on the rear panel (see Fig. 2).

<table>
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<tr>
<th>OPERATION</th>
<th>FUSE VALUE</th>
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<tr>
<td>120 V</td>
<td>3.5 A</td>
<td>SLOW BLOW</td>
</tr>
<tr>
<td>220/230/240 V</td>
<td>1.75 A</td>
<td>SLOW BLOW</td>
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Table 1. Fuse Values.

LINE VOLTAGE CONVERSION, INTERNATIONAL UNITS

The primary winding of the power transformer is tapped to permit operation from 120/220/230 or 240 VAC, 50/60 Hz line voltage. Conversion from one line voltage to another is done by a simple wiring change as shown in Fig. 10.

A label on the rear panel identifies the line voltage to which the unit was factory wired. To convert to a different line voltage, perform the following procedure:

1. Make sure the power cord is unplugged.
2. Remove the case and locate the power transformer.
3. Rewire the power transformer to the desired line voltage as shown in Fig. 10.
4. A change in line voltage may also require a corresponding change of fuse value. Install the correct fuse value as listed in Table 1.
5. Replace the cover.
6. Affix a label showing the correct line voltage for the unit after conversion. Place this label directly over the factory label.

ADJUSTMENTS

This unit was accurately adjusted at the factory before shipment. Readjustment is recommended only if repairs have been made in a circuit affecting adjustment accuracy, or if you have a reason to believe the unit is out of adjustment. However, adjustments should be attempted only if a multimeter with an accuracy of ±0.5% DCV or better is available (B+K Precision Model 2703A or equivalent).
Figure 10. Line Voltage Conversion, International Units
1743 CALIBRATION

If readjustment is required, use the following procedure. Locations of the adjustments are shown in Fig. 11.

1. Set the front panel controls of the Model 1743 as follows:
   Coarse and Fine VOLTAGE controls fully clockwise.
   Coarse and Fine CURRENT controls fully clockwise.
   Power switch to On.

2. Connect the multimeter to measure the voltage at pin 14 of IC2 with respect to the front panel red (+) output jack. **Adjust R21** for -5.00 volts on the multimeter.

3. Connect the multimeter to measure the voltage at pin 8 of IC2 with respect to the front panel red (+) jack. **Adjust R64** for 0 ± 10 mV on the multimeter.

4. Connect the multimeter to measure the DC voltage between the black (−) and red (+) output jacks. The voltage should be 35 to 37 volts, the green CV indicator should be lit, and the red CC indicator should be off.

5. Set the front panel Fine VOLTAGE control for a reading of 35.0 volts on the multimeter. **Adjust GREEN R304** for a front panel meter reading of 35.0 volts on the GREEN VOLTAGE meter.

6. Set the front panel Coarse VOLTAGE control for a reading of 04.0 to 06.0 volts on the GREEN VOLTAGE meter.

7. Connect the multimeter to read the DC current between the black (−) and red (+) output jacks, using the 10 amp range. The red CC indicator should light and the green CV indicator should go off.

8. Set the front panel Coarse CURRENT control for a reading of 6.00 amps on the multimeter. **Adjust RED R304** for a front panel meter reading of 6.00 amps on the RED CURRENT meter.

INSTRUMENT REPAIR SERVICE

Because of the specialized skills and test equipment required for instrument repair and calibration, many customers prefer to rely upon B+K Precision for this service. We maintain a network of B+K Precision authorized service agencies for this purpose. To use this service, even if the instrument is no longer under warranty, follow the instructions given in the WARRANTY SERVICE INSTRUCTIONS section of this manual. There is a nominal charge for instruments out of warranty.
Figure 11. Location of Adjustments.