COLETRONICS

New VALUE PACKED

Electronic Products and Equipment Catalog

10th Year Special Deduct 10% from all catalog prices.



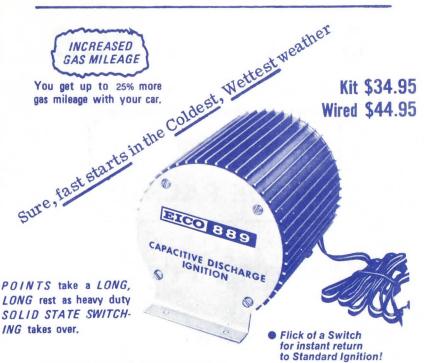
Order form on back cover.

COLETRONICS SERVICE INC.

1744 Rockaway Ave. Hewlett, L. I., N. Y. 11557

THE GAS WAR IS OVER- - - - GAS WON!

THAT'S WHY THE MODEL 889 MAKES GOOD SENSE



EICO 889 Solid State Capacitive Discharge Ignition System

Cuts into problems caused by emission control devices

Now discover for yourself the dramatic improvement in performance of your car, camper, jeep, truck, boat—any vehicle! EICO's new electronic achievement saves on gas, promotes better acceleration, gives your car that zip you've always wanted.

- · Gas mileage is increased up to 25%
- Points and spark plugs last up to 5 times longer
- You go up to 5 times longer between tune-ups

EICO Model 889 Capacitive Discharge Ignition System makes possible complete fuel combustion which means greater acceleration, higher top speed, increased spark plug life (up to 100,000 miles), instant cold weather starting and a mileage increase of as much as 25%. The EICO Model 889 is compatible with all domestic and foreign cars and trucks with 12 volt, negative ground systems. In Kit form, the unit is easy to assemble—no special skills or tools required. The unit is moisture proof and not affected by underhood temperatures. All needed wiring, connectors and fasteners are supplied—you use your present coil and spark plug wires. Size: (HWD) 4%" x 4%" x 6; Weight: 4 lbs.

SPOTS TROUBLE FAST - TELLS WHERE IT IS

Castle TV TUNER SUBBER

No Need To Disconnect The Suspected Tuner

Substitutes the VHF tuner and tests the UHF tuner.



Mark IV (Battery model)
net \$45.95

PIN - POINT

ANTENNA - TUNER - I.F. - AGC

TROUBLES

Permits signal injection after the agc controlled stages to simplify testing for agc defects.

- Works with any 40MHz receiver . . . color or black and white . . .
- High level, low impedance output furnishes signal usable at input of final i.f. stage.
- No need to disconnect supply leads from suspected tuner being tested.
- Use on the bench or in the home . . . anywhere.
- Comes complete with extension cables, batteries and instructions.

also available:

TV TUNER SUBBER, Mark IV-B net \$54.95

(120 VAC + Battery model)

${ t CRYSTAL}$ ${ t CHECKER}$ ${ t \&}$ ${ t FREQUENCY}$ ${ t STANDARD}$

TESTS CRYSTALS FOR OPERATIONAL CONDITION TV-FM- CB-HAM



Battery included \$19.95

CRYS-MATE KC 720

- Go-No Go Operation
- Indicates Open Intermittent Conditions
- Frequency Standard
- 9v Battery Powered
- Compact 4" x 3" x 1¾"
- Marker

Telematic Crys-Mate checks crystals for operational condition. Crvs-Mate is used for generating fundamental frequencies; for calibrating equipment, as a marker, etc. A wide range of frequencies can be generated dependent upon the value of the crystal inserted.



KT-730

Complete with Batteries and instructions. \$44.95

Fully Shielded

F.E.T. Circuitry

PORTABLE SUBSTI-TUNER

- Instant Tuner Check
- By-pass dead I.F.'s
- Antenna quality check
- Eliminates guesswork ■ Pinpoints signal loss
- Operates with any 40 MHZ TV
- All V.H.F. channels
 - Tests output of U.H.F. tuner
- Fully Shielded Metal Case

The Telematic Tuner Mate is one of the most useful service aids for rapidly pinpointing trouble in the antenna. Tuner, or I.F. stage. Don't lug a set when the antenna is tired. Don't waste hours guessing about the Tuner or I.F. stage.

It's a fast way to check a DEFECTIVE

Antenna - Tuner - I. F. Strip AGC circuit

EICO 324 RF SIGNAL GENERATOR

Rugged "DEPENDABILITY"

Proven from many years of use



KIT \$59.95 WIRED \$79.95

Use it for color or B & W TV, AM/FM radio and communication gear alignment and signal tracing, or wherever a modulated or unmodulated RF signal from 150 kHz to 435 MHz is required.

The excellent waveform provided by the RF oscillator is properly plate-modulated by a cathode follower. Modulation may be internal or external. The internal 400 Hz modulating signal is available separately. In the external modulation function, a stage of audio amplification is provided for the modulating signal, permitting up to 30% modulation from a 3-volt audio source. Percentage modulation by either the internal or an external source, as well as the separate audio output, is adjustable by a single panel control. Coarse and fine RF attenuators provide smooth control of the RF output signal.

Six tuning bands are employed to cover the fundamental frequency range from 150 kHz to 145 MHz. Calibration of the third harmonic of the highest fundamental provides the seventh tuning band from 111 mc to 435 MHz. The 6 to 1 vernier tuning dial permits exact setting of the output frequency.

Important construction points include the use of turret mounted, slug-tuned coils for maximum accuracy, copperplated chassis for minimized interference, line filters, shielded RF output cable and jack-top binding posts for audio in/out connections. Tubes: 12AU7, 12 AV7.

SPECIFICATIONS: RF OUTPUT FREQUENCY RANGE: 150 kHz to 145 MHz on fundamentals in 6 bands, 111 MHz to 435 MHz on calibrated harmonics. TUNING DIAL CALIBRATION ACCURACY: +1.5%. RF COARSE ATTENUATION: In two steps, each approximately 20 db. RF FINE ATTENUATION: Continuous 0 to max. INTERNAL AF MODULATING FREQUENCY: Approx. 400 Hz POWER REQUIREMENTS: 117, VAC, 60 Hz, 8 watts. SIZE (HWD): 8" x 10" x 4%". WEIGHT: 8 lbs.

EICO 680 TRANSISTOR & CIRCUIT TESTER

- Measures transistor ICBO, ICEO, DC Beta
- Simple criteria for all test in manual No Charts Are Needed



IMPORTANT FEATURES: ICBO (collector-base leakage current) and ICEO (collector-emitter leakage current) are measured accurately on microammeter ranges with sensitivity to 50 μ A full scale. Separate test positions are provided for signal and power transistors.

DC beta for signal transistors given directly by reading base current on a reciprocal scale (multiplied by appropriate range factor) to establish standard 1mA collector current indexed on scale. DC beta for power transistors can be approximated by calculating ratio of ICBO to ICEO.

AC Beta for signal transistors determined by reading base current settings required to establish two standard collector current, 0.75mA and 1.25mA, indexed on the scale (500 μA shift). AC beta is obtained by dividing 500 by the base current difference in μA , or referral to a chart in the manual which gives the result without calculation.

Quality of selenium rectifiers, germanium and silicon diodes determined by measurement of forward and reverse currents. Beta calibrate/zero ohms adjust also prolongs useful life of batteries.

SPECIFICATIONS

DC CURRENT ICBO/ICEO RANGES: $50_\mu A$, $500_\mu A$, 5mA, 50mA, 500mA, DC VOLT RANGES: 5V, 50V. RESISTANCE RANGES: Rx1 (0 to $2K\Omega$, 12Ω center scale), Rx100 (0- $200K\Omega$, $120\Omega\Omega$ center scale), Rx10K (0 to $20M\Omega$, $120K\Omega$ center scale). TRANSISTOR DC BETA RANGES: 2 to 30, 20 to 300. ACCURACY: $\pm 3\%$ F.S.D. CONNECTORS: Three permanently connected clip-on test leads (C, B, E) or a panel socket for transistor connectors; two banana jacks for VOM test leads. CONTROLS: RANGE switch, MODE switch (NPN, PNP, VOM), TEST switch (ICBO, ICEO, PWR ICBO, PWR ICEO, B CAL, READ B), B CAL/O Ω adjust control. BATTERIES: 4 size AA, 1 size C. SIZE (HWD): 63%" x 53%". WEIGHT: 3 lbs.LessVOM1eads.

The practical cordless original

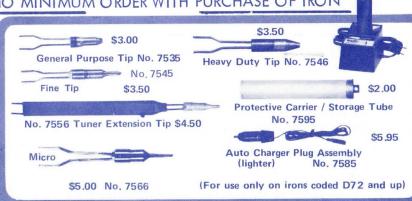
Standard Model 7500 \$20.95

When the Wahl Iso-Tip® Cordless Soldering Iron was introduced, it became practical to eliminate the cord from soldering.

Weighing only six ounces, compact and fast heating, the Iso-Tip can make up to 150 electronic joints (or more) per charge. Its recharging stand repowers its batteries overnight. And its worklight lets you see what you're soldering.

Accessories include carrier storage tube, auto charger, and 5 replacement tips.

MINIMUM ORDER - 4 ITEMS ACCESSORIES ONLY NO MINIMUM ORDER WITH PURCHASE OF IRON



- COMPLETELY PORTABLE
- HEATS IN 5 SECONDS
- SOLDERS UP TO 150 JOINTS OR MORE PER CHARGE
- RECHARGES AUTOMATICALLY IN ITS OWN STAND
- 50 WATTS & OVER 700° TIP TEMPERATURE
- A MUST FOR EVERY TUBE CADDY
- CONVENIENTLY SOLDER ROOFTOP ANTENNA LEADS

WEW!

"QUICK-CHARGE" MODEL 7700 \$25.95

 NEW SPECIAL PREMIUM Long-Life NiCad Batteries Recharges in 1/3 the Time.



FICO

MODEL 633 CRT TESTER & REJUVENATOR

" DOES IT ALL "

- LIFE TEST
- QUALITY TEST
- WELDS
- REJUVINATES
- SHORTS
- LEAKAGE

KIT \$119.95 - WIRED \$159.95

 Continuity and leakage checked through transistorized VOM and read directly on meter.

Check gray scale tracking ability.

Use the Model 633 to test and rejuvenate the most expensive component in your telévision set — the picture tube. Its versatility makes this one test instrument applicable to black and white as well as to color CRT's. Each gun of the color tube is measured individually and numerically, providing you with required gray scale tracking information. The all solid state instrument is packaged in a small, lightweight carrying case for convenient portability.

The various tests and rejuvenating functions can be accomplished using the seven rotary controls and the seven push-button switches on the front panel of the Model 633. While one rotary control is used to compensate for variations in line voltage, a second one is used for calibrating the 100% meter reading. Three controls are used to supply the proper individual voltages to the filament, to the Grid 1 and to the Grid 2. The leakage switch allows you to measure continuity and the quantity of leakage between the various electrodes in the tube. Each of the three color guns is selected in turn by simply setting the Color Gun Selector switch to the required position.

SPECIFICATIONS: METER SCALES: BAD-?-GOOD, % emission, 100ΚΩ to 10ΜΩ leakage; METER MOVEMENT: 200 microamperes ±2%, 4½" D'Arsonval; FILAMENT VOLTAGES: 1,2,3,4,5,6,7,8,9,10, 12; GRID 1 VOLTAGES: Variable 0 to -150; GRID 2 VOLTAGES: Variable 0 to +450; LIFE TEST VOLTAGE: Filament voltage minus 10%; BOOST VOLTAGE: Filament voltage plus 35%. WELD VOLTAGE: Filament voltage plus 85%; HIGH VOLTAGE: 350 volts; POWER REQUIREMENTS: 120 VAC, 50/60 Hz; SIZE (HWD): 5¾" x 12¾s" x 9¼"; WEIGHT: 9 lbs.

EICO 1040 SOLID STATE DC POWER SUPPLY

- 12 VOLTS DC.
- 4 AMPS Continuous
 - GREAT BENCH
 SUPPLY for CB,
 Car Radios, Tape
 Decks etc.



Quietly converts 115 Volts AC to 12 Volts DC. Handles 4 amps continuous and 6 amps maximum. Enables you to enjoy your car stereo tape player or CB rig at home. Also can be used to power a household burglar alarm or trickle-charge 12 volt car batteries. Automatically shuts off in case of an accidental overload. Wired only.

oower a rge 12 volt TRICKLE

General TRICKLE

TRICKLE

TRICKLE

TRICKLE

TRICKLE





Net. \$6.95

NOW YOU CAN TEST THE <u>VERY POPULAR</u>
"SONY TRINITRON" COLOR PICTURE TUBE

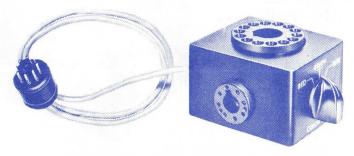
THIS ADAPTER CAN BE USED WITH THE

MH3 - CRU - 633 CRT TESTER

OR ANY

PICTURE TUBE TESTER REGARDLESS
OF MAKE OR MODEL NUMBER.

CONVERT YOUR TUBE TESTER INTO A HIGHLY EFFICIENT PICTURE TUBE TESTER



NO OTHER CRT ADAPTER DOES AS MUCH AS THE MULTI—HEAD

The Model MH-3 TESTS ALL BLACK AND WHITE PICTURE TUBES. 12 pin base, 8 pin base or the very latest 7 pin base. 8" to 30", 50° to 115°.

Tests all color picture tubes - Two 14 pin sockets 70 & 90° plus a special color switch designed to check each color gun (red - green - blue) separately

FEATURES: MODEL MH-3 ADAPTER \$22.95 each.

- 12 Pin Socket for standard blk. & wht. tubes
- 8 Pin Socket for 110^o RCA blk. & wht. "
- 7 Pin Socket for 1100 Philco & Sylvania types
- 7 Pin Socket for 7GR small Japanese types
- 2-14 Pin Color Sockets for 70 & 900 types
- Color Gun Switch for checking each of the Red - Green - & Blue Color Guns

NEW 10 PIN DECAL ADAPTER - MODEL A-20



- DECAL TUBES ARE NOW BEING USED EXTENSIVELY IN ALL THE LATEST PRODUCTION OF TV SETS.
 - DON'T LOSE SALES.
- TEST THE NEW 10 PIN DECAL TYPE TUBES NOW!

MODEL A-20 ADAPTER Net \$4.60

All you have to do is simply insert the adapter into the nine pin socket of your tube tester and attach the grid cap to the side stud and you are ready for test.

They Up-date Your Tube Tester

MAGNOVAL ADAPTER - MODEL M-1
DON'T RISK DAMAGE TO YOUR NOVAR SOCKET
BY INSERTING A LARGE DIAMETER PIN
'MAGNOVAL' TUBE.

TO PREVENT THIS DAMAGE WE HAVE DESIGNED A NEW MAGNOVAL ADAPTER.

"MAGNOVAL" TUBES HAVE LARGE DIAMETER PINS AND, IF INSERTED INTO A NOVAR SOCKET, THE NOVAR SOCKET CONTACTS BECOME SPREAD BEYOND USABLE TOLERANCE.



Net \$4.60

MODEL M-1 ADAPTER

All you have to do is simply insert the adapter into the novar socket of your tube tester or multi-socket adapter and you are ready for test.

NOW!!

Test The Most Difficult Circuit In A "SNAP"

"<u>IN</u> CIRCUIT OR <u>OUT</u> " KIT \$49.95 WIRED \$69.95

EICO 944 FLYBACK TRANSFORMER & YOKE TESTER

Now you can make one of the most difficult TV servicing jobs a breeze. Here's fast, positive testing of flybacks and yokes, in or out of the set at lowest cost!

The 944 Flyback Transformer & Yoke Tester gives you positive checks on flybacks and yokes in seconds. Operation is on the extremely sensitive griddip principle, which shows up even one shorted turn! Exclusive separate calibration for air-core and iron-core flyback and yokes

assures accuracy. The large easy-to-read 4½" meter has three separate colored scales. Continuity of coils, speakers, switches can also be checked. Size: 7" x 5" x 4" Weight: 5 lbs.
★ Export Model available



EICO 1140 SERIES/PARALLEL R-C COMBINATION BOX

*U.S. Patent



1350 R.C. COMBINATIONS

Exercise to the second second

SPECIFICATIONS

CAPACITORS (MFD): .0001, .00022, .00047, .001, .0015, .0022, .0033, .0047, .0068, .01, .015, .022, .0033, .0047, .068, .1, .15, .22. VOLTAGE RATINGS: Capacitors .0001 mfd through .00047 mfd: 500 volts, capacitors .001 mfd through .1 mfd: 600 volts, capacitors .015 and .22 mfd; 400 volts

WIRED \$34.95

Five-way jack-top binding posts. SIZE (HWD): 6¾" x 5¼" x 2¾". WEIGHT: 3 lbs. Supplied less leads.

SPECIFICATIONS

RESISTANCE RANGE: 15 ohms to 10 megohms in decade multiples of 15, 22, 33, 47, 68 and 100 ohms. RATED ACCURACY: ±10% at any setting. RATED POWER DISSIPATION: 1 watt at any setting. CONTINUOUS DUTY VOLTAGE RATING: 500 volts.

The EICO model 1140 Series/ Parallel R-C Combination Box is an extremely valuable combination of the model 1100 Resistance Box and the model 1120 Capacitance

Box, with additional switching facilities that permit selection of any resistance alone, any capacitance alone, or any combination of resistance and capacitance in series or parallel (1350 combinations) Open and short circuit positions are provided.

KIT \$24.95

The most versatile R. C. box ever offered

EICO 955 IN-CIRCUIT BRIDGE-TYPE

CAPACITOR TESTER

KIT \$49.95 WIRED \$69.95

- Wien Bridge with unique shunt resistance balancing circuit
- Capacity accuracy of ±10% at any point on the capacity dial
- Bright bar pattern gives sharp, unmistakable indications for accurate readings
- Supplied with Test leads



A truly advanced, highly dependable in-circuit and out-of-circuit capacitor tester, the 955 provides exceptionally sensitive short and open tests.

In evaluating the 955, ELECTRONICS WORLD had this to say: "In actual use, tests were simple, fast and clearly indicative. But for the capacitance-measuring function, nothing more than a simple switch need be operated. . . . Part of the manufacturer's new line of industrial equipment, the 955 is sturdily and attractively housed."

A quick, easy glance at the electron-ray tube lets you know the status of shorts (closed bars indicate a short). A 60 cps test frequency and a maximum test voltage of 6.3 VAC (open leads), decreasing with decreasing impedance, are also featured. In normal situations open tests can be made on capacities as low as 15 pf, but with constant voltage supply, internal adjustment can be made as little as 5 pf sensitivity. For in-circuit testing, shunt resistance may be as low as 35 ohms for capacitors above 250 pf and 7 K ohm at 15 pf. The test frequency is approximately 19 mc and the voltage is very low.

For capacity measurement the scale is screened on a 4" diameter heavy-gauge lucite disc. The reading point is just above the center of the bar pattern, and operating frequency of the bridge is 60 cps.

The ±10% accuracy is achieved by a sharp null indication (closed bars) when shunt resistance is balanced by the RC BALANCE control, and the .1-50 mfd CAPACITY dial is set at the correct capacitance value. The RC BALANCE control is calibrated in RC product (equivalent shunt resistance in kilohms multiplied by the capacitance in microfarads) in two ranges, 0.6 to 10.5 and 7 to infinity, selected by the RC RANGE switch. The very wide RC product range provided, with excellent spread permitting easy setting to any value, is the key to the accurate capacity measurement provided either in or out of circuit. For out-of-circuit measurements, the RC product value can be translated into dissipation or power factor by means of conversion charts in the manual.

SPECIFICATIONS

INDICATOR: Electron-ray tube EM84/6BG6. TEST SELECTOR: Three-position switch — SHORT, CAPACITY, OPEN. TEST LEADS: One coax type for all tests: detachable, with mic connector coupling to unit. SHORT TEST: Out-of-circuit or in-circuit short check, with shunt resistance as low as 1 ohm. Reliable up to 2000 uf. OPEN TEST: Out-of-circuit or in-circuit open test of capacitors as small as 15 pf with instrument adjusted normally. CAPACITY MEASUREMENT: From 0.1 to 50 μ f using Wien Bridge with unique shunt resistance balancing, permitting $\pm 100\%$ accuracy at any point on the capacity dial in out-of-circuit or in-circuit measurements. POWER REQUIREMENTS: 117 VAC, 60 cps, 8 watts. SIZE (HWD): 8½" x 5½" x 6". WEIGHT: 6 lbs.

★ Export Model available

New and Improved! HVP-5 HIGH VOLTAGE PROBE Built-in-Meter with 40K.V. 2 color scales EICO **CURRENT** LOWEST PRICE A MUST FOR AROUND COLOR T. V. REPAIRS UNRELIABLE HIGH VOLTAGE SETTINGS CAN CAUSE Improper dynamic and static convergence. Lack of crisp focus. Poor brightness and contrast. Blooming of the raster. Excessive x-ray radiation. 3 Position Function Switch-KV, Lock, mA Shorter picture tube life.

A self-contained, direct reading, high voltage and current measuring probe providing for the safe measurement of voltage up to 40,000 Volts DC, and for separate current measurements up to 200 mA DC. It enables you to accurately measure the high anode voltage of a color picture tube and with a flick of the switch, monitor the cathode current drawn by the horizontal output tube or the output stage. The two circuits are completely separate. Only the meter is switched. The EICO HVP-5 can not be damaged by placing the function switch in a mA position while measuring high voltage. This feature allows the technician to switch from the mA position to the HV position without disrupting the operation of the set under test. Wired only.



EICO 232 Peak to Peak Measuring VTVM

The established leader in professional VTVMs. Large 41/2" meter movement. Seven ranges for each function. Measure dc to 1500 volts (to 30 KV with optional HVP-2 probe). 11 megohms input impedance. Zero center for FM discriminator adjustment. Direct reading rms or peak-to-peak scales for all ac measurements to 1500 volts rms or 4200 volts peak-to-peak. Frequency response is 30 Hz to 3 MHz (extended to 250 MHz with optional PRF-11 probe). Measure resistance from 0.2 ohms to 1000 megohms. Complete with exclusive dual purpose AC/DC Uniprobe.

Kit \$44.95 Wired \$66.95

EICO 249 Deluxe VTVM

Same outstanding features of the 232 plus extra convenience and readability of a large 7" meter. **Kit** \$59.95 **Wired** \$89.95

EICO 235 Professional VTVM

A must for the engineer or technician who works on equipment ranging from color TV to solid state devices. Measure dc on eight ranges from 0.5 volt to 1500 volts (to 30 KV with optional HVP-2 probe). 11 megohms input impedance. Seven peak-to-peak ac measuring ranges from 1.5 to 1500 volts rms (to 4200 volts peak-to-peak). Frequency response to 3 MHz is extended to 250 MHz with optional PRF-11 probe. Seven resistance ranges to 1000 megohms. Complete with exclusive Uniprobe.

Kit \$74.95 Wired \$99.95 EICO 239 Portable FET-TVM

The industry's lowest cost professional FET-TVM. Completely portable, battery

operated solid state design. $4\frac{1}{2}$ " meter movement. Accurate readings to as low as .05 volt on the 1 volt scale. Seven 11 megohms dc ranges to 1000 volts (to 30,000 volts with optional HVP probe). AC in seven ranges to 1000 volts rms (to 2800 volts peak-to-peak) can be read directly from the dual calibration on the meter dial. Measure resistance accurately to 1000 megohms in 7 ranges. Includes exclusive Uniprobe. **Kit** \$49.95 **Wired** \$79.95

EICO 242 Deluxe FET-TVOM

As modern as today's technology, this fine solid state instrument can be powered by ac or by battery for portability. Measures ac or dc current from 10 μ A to 1A in addition to providing all of the Eico 239 capabilities. Low ohmmeter voltage allows you to measure resistance even in semiconductor circuits. Large 6½" meter movement. Professional looking cabinet. Complete with exclusive Multi-probe for all functions.

Kit \$89.95 Wired \$129.95

EICO HVP-2 High Voltage Probe.
Extend measurements up to 30,000 dc volts when used with any 11 megohm input VTVM. Wired only \$10.95

EICO UP Uniprobe. Performs all functions. A half-turn of the probe tip selects DC to AC-ohms. Adapts to EICO or other VTVM's.

Kit \$6.95 Wired \$8.95

EICO PRF-11 RF Probe. For measuring voltages of radio frequencies to 250 MHz. Very useful when checking TV and radio frand if stages. Use with any 11 megohm VTVM. Kit \$5.95 Wired \$7.95

COLETRONICS SERVICE INC.

1744 ROCKAWAY AVE. HEWLETT, N. Y. 11557 (516) 599-2540

NAME	CLEARLY ESS				
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QUAN.	MODEL NO.	DESCRIPTION		PRICE	TOTAL
			dapters / Accesso	ries:	
QUAN.	MODEL NO.	DESCRIPTION		PRICE	TOTAL
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OAVE 1070.			N.Y. State res sales tax	idents add	
				Canada — Add \$3.00 West Coast — Add \$2.00	
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