

Automated Test Systems  
S-3030, S-3110, S-3120, S-3130, S-3150  
S-3260 and S-3455

## AC POWER CONTROLLERS

### TYPE 1-A

(015-0253-01)  
(015-0255-02)  
(015-0255-03)  
(015-0257-01)

## BEFORE READING

**PLEASE CHECK FOR CHANGE INFORMATION  
AT THE REAR OF THIS MANUAL.**

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SEMICONDUCTOR TEST SYSTEMS (STS)  
MEASUREMENT SYSTEMS DIVISION

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## SECTION 1: GENERAL DESCRIPTION

This manual provides information for the installation, operation, and maintenance of the Tektronix AC Power Controllers Type 1-A listed below.

Tektronix Part Number	Maximum Amperage	Input Voltage	Phase
015-0253-01	30	115	Single
015-0255-02	15	115	Single
015-0255-03	15	100	Single
015-0257-01	15	230	Single

### Description

The Type 1-A Power Controllers are similarly designed with these two exceptions for exported units:

1. The 100 V/15 A power controller circuitry includes a step-up transformer;
2. The 100 V/15 A and 230 V/15 A controller power cords, circuit breakers, and outlets vary according to voltage/current requirements.\*

As the photographs and schematics in Section 4 illustrate, the AC Power Controllers is a simply designed unit consisting of eight switched outlets, two unswitched outlets, a circuit breaker, a fuse, two indicator lamps, a remote jack, a grounding point, a remote-slave switch and a slave input. This design facilitates the distribution and control of the AC voltage throughout the system in which the controller is installed. Furthermore, the remote-slave switch (S1) and the slave input (J7) give the controller the capability of simultaneously energizing several AC Power Controllers connected in series.

The AC Power Controllers are panel mounted and designed for a standard 19-inch cabinet. Often mounted in automated test systems, these controllers filter and distribute AC power to cabinet-mounted equipment. In addition, each controller delivers unswitched power (activated by the power controller circuit breaker only) through double outlet J3 and switched power (activated by both the power controller circuit breaker and the operator's remote ON-OFF switch) through double outlets J1, J2, J4, and J5.

\*Since Tektronix installed power cords on exported controllers may not always comply with your local standards, you are ultimately responsible for the compliance with all local standards.

## **General Description – AC Power Controllers**

Using the S-3455 Memory Test System as a specific example, visualize how the controller disperses power throughout a system. When the circuit breaker is on, the green indicator lamp (DS1) lights signifying that unswitched power is available at the controller. Usually, the unswitched outlet, J3, delivers power to operate equipment external to the S-3455 system. For example, the unswitched outlet might:

- Heat a soldering iron;**
- Power test instruments (e.g., an oscilloscope or digital voltmeter); or**
- Power a hard copy unit.\***

To turn on the switched power of the controller, depress the ON OFF switch located on the S-3455 system front. When it turns green, the system is turned on. This remote ON-OFF switch, connected by a cable to the remote switch jack (J6), also lights the switched indicator lamp (DS2) signaling that the switched power is accessible from the controller or its power strip. Either distributes power:

- To the power supply back door;**
- To the lower blower assembly;**
- To the upper fan assembly;**
- To the Anadex Glass Printer; and**
- To the 100 volt parametric supply.**

\*Since the Tektronix Hard-Copy Unit draws approximately 12 amps during warm up, allow about 40 seconds initial warm-up time prior to turning on other equipment. This avoids possible circuit breaker trip out. Also, we recommend that the hard-copy unit be connected to an unswitched outlet because the continuous power to the paper cooler of the hard-copy unit prolongs paper life.

**Specifications**

<b>Operating Temperature Range</b>		<b>0°C to 65°C (32°F to 149°F)</b>
<b>Input Power</b>		
Voltage	115 VAC ± 15%	115 V models
	230 VAC ± 15%	230 V models
<b>Voltage Transients (Maximum)</b>		249 V @ 1 mA      115 V models 479 V @ 1 mA      230 V models
Phase	Single	
Frequency	47 Hz-63 Hz	
Current	30 A	015-0253-01
	15 A	015-0255-02 & -03 015-0257-01
<b>Output</b>		
Outlets	8 switched 2 unswitched	
Outlets Current Rating	15 A per outlet or 20 A per branch on the 015-0253-01.  15 A per outlet or 7½ A per branch on the 015-0255-02 & -03 and 015-0257-01.	
Circuit Breakers	15 A on 015-0255-02 15 A/15 A on 015-0255-03 015-0257-01 20 A/20 A/30 A on 015-0253-01	

## SECTION 2: INSTALLATION

### General

As previously mentioned, the Type 1-A AC Power Controllers are panel mounted and designed for a 19-inch cabinet. Their panels are a standard 5½ inches high and 8½ inches deep. Although these controllers may be mounted in any convenient place, they are cooled by convection and the maximum temperature of the installation site should not exceed 65° Celsius (149° Fahrenheit).

To protect the power controller and the equipment which it powers, determine whether the frequency, voltage, and current rating match your primary power source.

### Installing the Power Plug

Within the controller, the power cord wires have this denotation:

- Green is safety earth (or green/yellow if multiconductor),
- White is neutral, and
- Black is the AC line.

The green safety earth prevents any dangerous voltage buildup on the controller frame. It also assures that any short circuit between the AC line and the cabinet-mounted equipment draws enough current to trip the controller circuit breaker.

Do not confuse the neutral line with the safety earth. Except at the electrical service entrance of the building, this neutral line must never be connected to the equipment frame, the cabinet, or the safety earth.

### Installing the Grounding Strap

#### WARNING

A good ground must exist between the system cabinet and the AC Power Controller before applying power.

\*On exported AC Power Controllers, no power plug is attached; therefore, you must attach one according to your local standards.

After you have determined that the controller and the primary power source are compatible, you are ready to install the grounding strap. As the caution label states, the lower right corner of the controller front panel provides a grounding point. Install the grounding strap between this point on the front panel and the system cabinet.\* Ensure that you have an electrical ground connection between not only the AC Power Controller and the system cabinet, but also between all other cabinet mounted equipment and the system cabinet. This assures your personal safety and is essential for the proper operation of your equipment. Once you have done this, switch the circuit breaker of the controller off and connect the controller power plug to the primary power source. Then, by activating the circuit breaker, you can energize the unswitched outlets.

### **Installing the Remote ON-OFF**

A cable connected between the remote ON-OFF switch on the cabinet front and J6 on the power controller permits the union of pins 1 and 3 of J6. This union energizes the power controller. More specifically, connecting pins 1 and 3 activates the K1 contactor coil, lights the DS2 indicator lamp, and energizes the eight switched outlets. After assuring the presence of voltage at the switched outlets, turn off the circuit breaker and connect the cabinet mounted equipment. Then, turn on the circuit breaker and the remote ON-OFF switch is ready to energize your system.

### **Installing the Remote-Slave Cable**

After joining the remote ON-OFF switch cable to J6, plug in the remote-slave cable between any switched outlet (J1, J2, J4, or J5) of the master power controller and the slave input (J7) of a second power controller as illustrated in Figure 2-1. The power controller to which the remote ON-OFF switch is connected now becomes the master controller. All other controllers in series with the master controller are activated or deactivated through the master controller circuitry. Therefore, once you check to see that all the controllers are grounded, that the remote-slave switch (S1) of the master controller is positioned to REMOTE, and that the S1 of all other slaved controllers is positioned to SLAVE, you are ready to energize several controllers in series by means of the remote ON-OFF switch. If, however, S1 of any slaved power controller is in the remote position, that power controller will not activate, nor will any of the controllers in series after it.

### **Preventive Maintenance**

Because of the uncomplicated design of the AC Power Controller Type 1-A, you can expect, with minimal maintenance, years of trouble-free service. Visually inspecting its components and wiring, checking

\*If at any time a grounding strap is unavailable, insulated number 10 wire (AWG) may be used for a grounding strap.

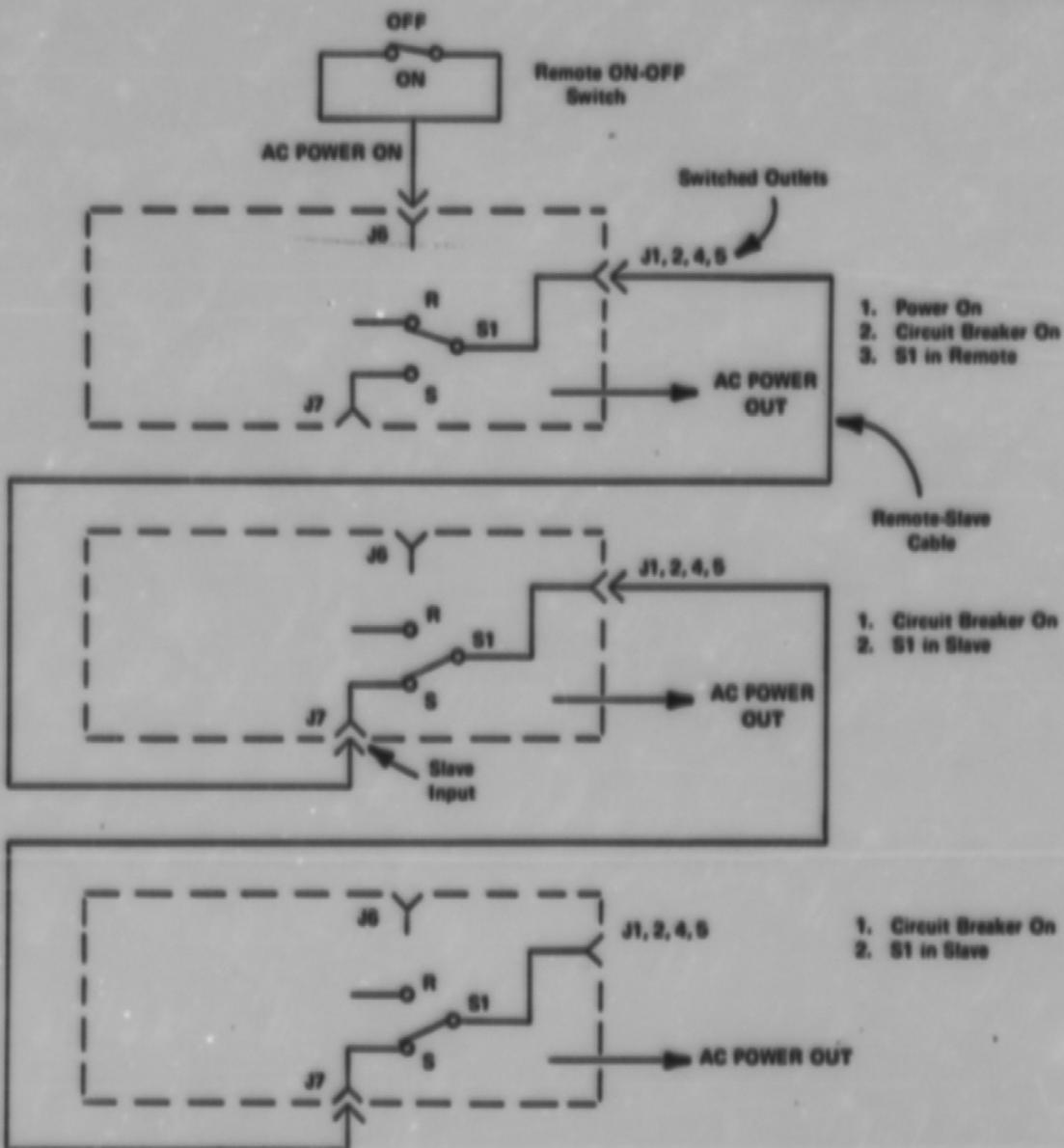


Figure 2-1. Sample Configuration of Remote ON-OFF Control with 2 Slaved Power Controllers.

it for overheating, and occasionally dusting it with low air pressure should be all the maintenance necessary. Whenever maintenance is necessary, however, proceed with caution.

#### CAUTION

When the controller cover is removed, dangerous voltages are exposed. Disconnect the controller power cord and slave input cord if any connections of test equipment are necessary within the controller.

## SECTION 3: CIRCUIT DESCRIPTION

### General

The AC Power Controllers not only control and distribute AC voltage, but also eliminate high-frequency line interference by means of an EMI (electro-magnetic interference) filter. Inductive filters connected in series with the neutral, ground, and AC line conductors provide a high impedance to transient, noise and hum interference. In addition,  $0.1 \mu\text{F}$  capacitors provide a low impedance to ground for these signals.

The varistors installed across the incoming power line, the AC outlets, and the contactor coil (K1) further reduce any transient, noise or hum interference which can detrimentally affect any peripheral digital equipment. These varistors effectively limit fast spikes of short duration.

Unlike the other AC Power Controllers, the 100 V/15 A circuitry includes a transformer (T11) which steps up the 100 volt input allowing the use of 115 volt equipment at the outlets. No other components are added for this voltage conversion, and the AC line frequency remains the same.

### Remote-Slave Circuitry

As mentioned earlier, activating the remote ON-OFF switch energizes the master AC Power Controller. In particular, when the circuit breaker is on, and the remote ON-OFF switch is on, the contactor coil (K1) energizes the master controller circuitry. Moreover, if the master controller is set up for remote-slave operation, and if all the slaved controller S1's are in the slave position, and if all the slaved controller circuit breakers are switched to ON, the master power controller energizes all the slaved power controllers.

Assuming that these conditions exist, the following is true: The remote ON-OFF switch directly activates the K1 contactor coil of the master power controller and establishes a voltage at all switched outlets. With a remote-slave cable connecting a master controller's switched outlet and the slaved controller's input, this voltage is available to the slaved power controller. (See Figure 2-1.) It cannot turn on the slaved controller, however, if the slaved circuit breaker is off or if the slaved S1 is in remote. The voltage entering the slaved power controller through the slave input, activates the slaved K1 contactor coil and energizes the slaved switched outlets. If any of these switched outlets is connected to other slaved power controllers, the process is repeated until all power controllers are on.

# REPLACEABLE PARTS

## PARTS ORDERING INFORMATION

Replacement parts are available from or through your local Tektronix, Inc. Field Office or representative.

Changes to Tektronix instruments are sometimes made to accommodate improved components as they become available, and to give you the benefit of the latest circuit improvements developed in our engineering department. It is therefore important, when ordering parts, to include the following information in your order: Part number, instrument type or number, serial number, and modification number if applicable.

If a part you have ordered has been replaced with a new or improved part, your local Tektronix, Inc. Field Office or representative will contact you concerning any change in part number.

Change information, if any, is located at the rear of this manual.

## SPECIAL NOTES AND SYMBOLS

- X000 Part first added at this serial number
- 00X Part removed after this serial number

## FIGURE AND INDEX NUMBERS

Items in this section are referenced by figure and index numbers to the illustrations.

## INDENTATION SYSTEM

This mechanical parts list is indented to indicate item relationships. Following is an example of the indentation system used in the description column:

1 2 3 4 5	Name & Description
	<i>Assembly and/or Component</i>
	<i>Attaching parts for Assembly and/or Component</i>
	.....
	<i>Detail Part of Assembly and/or Component</i>
	<i>Attaching parts for Detail Part</i>
	.....
	<i>Parts of Detail Part</i>
	<i>Attaching parts for Parts of Detail Part</i>
	.....

Attaching Parts always appear in the same indentation as the item it mounts, while the detail parts are indented to the right. Indented items are part of, and included with, the next higher indentation. The separation symbol ..... indicates the end of attaching parts.

Attaching parts must be purchased separately, unless otherwise specified.

## ITEM NAME

In the Parts List, an Item Name is separated from the description by a colon (:). Because of space limitations, an Item Name may sometimes appear as incomplete. For further Item Name identification, the U.S. Federal Cataloging Handbook HG-1 can be utilized where possible.

## ABBREVIATIONS

INCH	INCH	IN	INCH	IN	SINGLE END
# NUMBER SIZE	ELECTR ELECTRON	INCAND INCANDESCENT	SECT SECTION	SECT SEMICOND	SEMICONDUCTOR
ACTR ACTUATOR	ELEC ELECTRICAL	INSUL INSULATOR	SHLD SHIELD	SHLD SHLDR	SHOULDERED
ADPTR ADAPTER	ELCTLYT ELECTROLYTIC	INTL INTERNAL	SLID SLIDE	SLID SLKT	SOCKET
ALIGN ALIGNMENT	ELEM ELEMENT	LPHDLR LAMPHOLDER	SLFLKG SELF-LOCKING	SLFLKG SLVG	SLEEVING
AL ALUMINUM	EPL ELECTRICAL PARTS LIST	MACH MACHINE	SPRING SPRING	SPRING SQ	SQUARE
ASSEM ASSEMBLED	EQUIPMENT	MCHN MECHANICAL	SOD ORDER BY DESCRIPTION	SOD SST	STAINLESS STEEL
ASSY ASSEMBLY	EXT EXTERNAL	MFG MOUNTING	ODD OUTSIDE DIAMETER	ODD STL	STEEL
ATTEN AT TENUATOR	FIL FILLISTER HEAD	NIP NIPPLE	OVAL HEAD	OVAL SW	SWITCH
AWG AMERICAN WIRE GAGE	FLEX FLEXIBLE	NON WIRE NOT WIRE WOUND	PH BRZ PHOSPHOR BRONZE	PLAIN PL	TUBE
BD BOARD	FLH FLAT HEAD	ODD ORDER BY DESCRIPTION	PLSTC PLASTIC	PLSTC TERM	TERMINAL
BRKT BRACKET	FLTR FILTER	ODD OUTSIDE DIAMETER	PAN PAN NUMBER	PAN THD	THREAD
BRS BRASS	FR FRAME or FRONT	OVAL OVAL HEAD	PAN HEAD	PAN THICK	THICK
BRZ BRONZE	FSTRN FASTENER	PH BRZ PHOSPHOR BRONZE	POWER POWER	POWER THIN	THIN
BUSH BUSHING	FT FOOT	PL PLAIN or PLATE	RECEPT RECEPTACLE	RECEP TPG	TENSION
CAB CABINET	FWD FIRED	PLSTC PLASTIC	RES RESISTOR	RES TRH	TRUSS HEAD
CAP CAPACITOR	GASKT GASKET	PAN PAN NUMBER	RGD RGD	RGD V	VOLTAGE
CER CERAMIC	HDL HANDLE	PAN HEAD	REL RELIEF	REL VAR	VARIABLE
CHAS CHASSIS	HEX HEXAGON	POWER POWER	RET RETAINER	RET W	WITH
CRT CIRCUIT	HEX HD HEXAGONAL HEAD	RECEPT RECEPTACLE	SCH SOCKET HEAD	SCH WASH	WASHER
COMP COMPOSITION	HEX SOC HEXAGONAL SOCKET	RES RESISTOR	SCOPE OSCILLOSCOPE	SCOPE XFMN	TRANSFORMER
CONN CONNECTOR	HCPS HELICAL COMPRESSION	RGD RGD	SCR SCREW	SCR XSTR	TRANSISTOR
COV COVER	HELEX HELICAL EXTENSION	REL RELIEF			
CPLG COUPLING	HV HIGH VOLTAGE	RET RETAINER			
CRT CATHODE RAY TUBE	IC INTEGRATED CIRCUIT	SCH SOCKET HEAD			
DEG DEGREE	ID INSIDE DIAMETER	SCOPE OSCILLOSCOPE			
DWR DRAWER	IDENT IDENTIFICATION	SCR SCREW			
	IMPLR IMPELLER				

## CROSS INDEX—MFR. CODE NUMBER TO MANUFACTURER

Mfr. Code	Manufacturer	Address	City, State, Zip
00779	AMP, INC.	P O BOX 3608	HARRISBURG, PA 17105
01121	ALLEN-BRADLEY COMPANY	1201 2ND STREET SOUTH	MILWAUKEE, WI 53204
03508	GENERAL ELECTRIC COMPANY, SEMI-CONDUCTOR PRODUCTS DEPARTMENT	ELECTRONICS PARK 103 HAWTHORNE STREET	SYRACUSE, NY 13201
04009	ARROW-HART, INC.	RICHARDS AVENUE	HARTFORD, CT 06106
09922	BURNDY CORPORATION	1655 ELMWOOD AVENUE	BROCKVILLE, CT 06852
14804	ELMWOOD SENSORS, INC.	P. O. BOX 1331	CRANSTON, RI 02907
16428	SELDEN CORP.	36 BUTLER ST.	RICHMOND, IN 47376
59730	THOMAS AND BETTS COMPANY	1421 STATE	ELIZABETH, NJ 07207
71183	BRYANT ELECTRIC CO.	2536 W. UNIVERSITY ST.	BRIDGEPORT, CT 06602
71400	BUSSEMAN MFG., DIVISION OF MCGRAN- EDISON CO.	1501 MORSE AVENUE	ST. LOUIS, MO 63107
71785	TRW, CINCH CONNECTORS	2600 BRUNSWICK PIKE, PO BOX 299	ELE GROVE VILLAGE, IL 60007
76193	HEINEMANN ELECTRIC COMPANY	800 E. NORTHWEST HWY	TRENTON, NJ 08602
75915	LITTELFUSE, INC.	200 RICHLAND CREEK DRIVE	DEB PLAINES, IL 60016
77342	AMP INC., POTTER AND BRUMFIELD DIV.	ST. CHARLES ROAD	PRINCETON, IN 47670
78189	ILLINOIS TOOL WORKS, INC. SHAKEPROOF DIVISION	2100 S. O BAY ST.	ELGIN, IL 60120
79807	WROUGHT WASHER MFG. CO.	P O BOX 500	MILWAUKEE, WI 53207
80009	TEKTRONIX, INC.	5555 N. ELSTON AVE.	BEAVERTON, OR 97077
82189	SWITCHCRAFT, INC.	95 GRAND AVENUE	CHICAGO, IL 60630
82879	ITT ROYAL ELECTRIC DIVISION	2530 CRESCENT DR.	PAWTUCKET, RI 02862
83185	CENTRAL SCREW CO.	2032 E. WESTMORELAND ST.	BROADVIEW, IL 60153
86445	PENN FIBRE AND SPECIALTY CO., INC.	701 SONORA AVENUE	PHILADELPHIA, PA 19136
86928	SEASTROM MFG. COMPANY, INC.	P. O. BOX 1348	GLENDALE, CA 91201
95146	ALCO ELECTRONICS PRODUCTS, INC.		LAWRENCE, MA 01842

015-0263-01

## CROSS INDEX—CKT NUMBER TO FIG. &amp; INDEX NUMBER

Ckt No.	Fig. & Index No.	Tektronix Part No.
C81	4-1-11	260-1741-00
D81	1-10	150-0174-01
D82	1-20	150-0175-01
E81	1-29	119-0678-00
F1	1-19	159-0022-00
J1AAB	1-4	131-1680-00
J2AAB	1-4	131-1680-00
J3AAB	1-4	131-1680-00
J4AAB	1-4	131-1680-00
J5AAB	1-4	131-1680-00
J6	1-37	204-0640-00
J7	1-13	131-1084-00
K1	1-22	140-0101-00
K6	1-41	175-1833-00
Y7	1-7	161-0110-02

Ckt No.	Fig. & Index No.	Tektronix Part No.
HV1	4-1-28	307-0415-00
HV2	1-28	307-0415-00
HV3	1-28	307-0415-00
HV4	1-28	307-0415-00
Y1	1-15	260-1840-00

Ckt No.	Fig. & Index No.	Tektronix Part No.

Fig. 4-1 015-0253-01

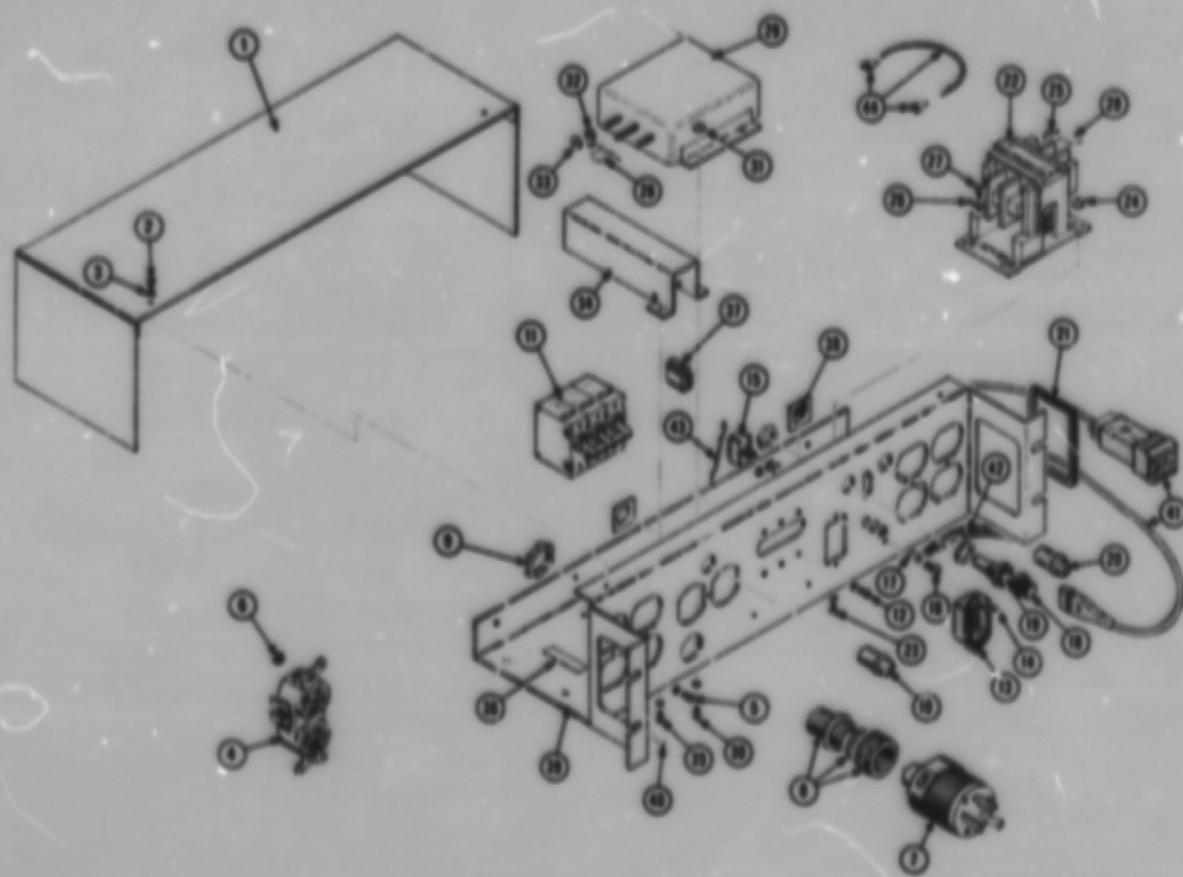


Fig & Index No	Tektronix Part No.	Serial/Model No. E#H	Discount	Qty	015-0253-01					Mfr Code	Mfr Part Number
					1	2	3	4	5	Name & Description	
-1	200-1781-00			1	COVER,CHASSIS,E:CONTROLLER (ATTACHING PARTS)					80009	200-1781-00
-2	211-0504-00			2	SCREW,MACHINE:6-32 X 0.25 INCH,FNH STL					83385	ORD
-3	210-0006-00			2	WASHER,LOCK:#6 INTL,0.018THK,STL CD PL					78189	1206-00-00-0541C
-4	131-1680-00			5	CONN,RCPT,ELEC:15A,125 VAC,BROWN (ATTACHING PARTS)					04009	5000H9
-5	211-0504-00			5	SCREW,MACHINE:6-32 X 0.25 INCH,FNH STL					83385	ORD
	210-0006-00			5	WASHER,LOCK:#6 INTL,0.018THK,STL CD PL					78189	1206-00-00-0541C
-6	210-0457-00			5	NUT,PL,ASSEM WA:6-32 X 0.312 INCH,STL -----					83385	ORD
-7	161-0110-02			1	CABLE ASSY,PWR.:3,10 AWG,120V,96.0 INCH L					80009	161-0110-02
-8	358-0543-00			1	BUSH,STRAIN REL:FOR 0.5 TO 0.625" DIA HOLE (ATTACHING PARTS)					59730	2535
-9	220-0769-00			1	LKT,ELEC CND:0.75 ID X 1.375 INCH OD,STL -----					59730	142
-10	150-0174-01			1	LIGHT,INDICATOR:W/CONNECTORS,GREEN					80009	150-0174-01
-11	260-1761-00			1	CIRCUIT BREAKER:20-20-30A,240V,60HZ (ATTACHING PARTS)					74193	J43-A3-A
-12	211-0504-00			6	SCREW,MACHINE:6-32 X 0.25 INCH,FNH STL					83385	ORD
	210-0006-00			6	WASHER,LOCK:#6 INTL,0.018THK,STL CD PL					78189	1206-00-00-0541C
-13	131-1084-00			1	CONNECTOR,RCPT,:3 BLADE,6A,250V (ATTACHING PARTS)					82389	EAC-302
-14	211-0012-00			2	SCREW,MACHINE:4-40 X 0.375,FNH STL CD PL					83385	ORD
	210-0586-00			2	NUT,PL,ASSEM WA:4-40 X 0.375,STL CD PL -----					83385	211-041800-00
-15	260-1840-00			1	SWITCH,TOGGLE:4PDT,3A,250V (ATTACHING PARTS)					95146	NTAA06H/UL
	210-0940-00			1	WASHER,FLAT:0.25 ID X 0.375 INCH OD,STL -----					79807	ORD
-16	212-0518-00			1	SCREW,MACHINE:10-32 X 0.312 INCH,FNH STL					83385	ORD
-17	210-0009-00			1	WASHER,LOCK:EXT,0.193ID X0.40" OD,STL					78189	1110-00
-18	352-0074-00			1	FUSEHOLDER:W/HARNESS					75915	342012-L
-19	159-0022-00			1	FUSE,CARTRIDGE:3AG,1A,250V,FAST-BLOW					71400	AGC 1
-20	150-0175-01			1	LIGHT,INDICATOR:W/CONNECTORS,AMBER					80009	150-0175-01
-21	252-0584-00			1	PLASTIC EXTR:1.563 FT LONG					80009	252-0584-00
-22	148-0101-00			PT	CONTACTOR,MAG:110-120V,3A (ATTACHING PARTS)					14606	3080-30 CU/AL
-23	211-0504-00			6	SCREW,MACHINE:6-32 X 0.25 INCH,FNH STL					83385	ORD
	210-0006-00			4	WASHER,LOCK:#6 INTL,0.018THK,STL CD PL					78189	1206-00-00-0541C
-24	210-0457-00			4	NUT,PL,ASSEM WA:6-32 X 0.312 INCH,STL -----					83385	ORD
-25	210-0206-00			3	TTERMINAL,LUG:SE #10					86928	A373-147-1
-26	210-0202-00			2	TERMINAL,LUG:0.146 ID,LOCKING,BRZ TINNED (ATTACHING PARTS)					78189	2104-06-00-2520H
-27	211-0511-00			2	SCREW,MACHINE:6-32 X 0.500,FNH,STL,CD PL -----					83385	ORD
-28	307-0415-00			4	RES,V SENSITIVE:DISC					03508	V130LA10A
-29	119-0678-00			1	FILTER,RFI:30A,115-230V,60HZ (ATTACHING PARTS)					80009	119-0678-00
-30	211-0507-00			2	SCREW,MACHINE:6-32 X 0.312 INCH,FNH STL					83385	ORD
	213-0183-00			2	SCR,TFG,THD FOR:6-20 X 0.5 TYPE S,FNH,STL					83385	ORD
	210-0006-00			4	WASHER,LOCK:#6 INTL,0.018THK,STL CD PL					78189	1206-00-00-0541C
-31	210-0457-00			4	NUT,PL,ASSEM WA:6-32 X 0.312 INCH,STL -----					83385	ORD
-32	210-0205-00			2	TERMINAL,LUG:SE #8 (ATTACHING PARTS)					86928	S442-7
-33	210-0458-00			2	NUT,PL,ASSEM WA:6-32 X 0.344 INCH,STL -----					78189	511-081800-00
-34	337-2175-00			1	SHIELD,ELEC:AC CONTROLLER (ATTACHING PARTS)					80009	337-2175-00
-35	213-0146-00			3	SCR,TFG,THD FOR:6-20 X 0.313 INCH,FNH STL -----					83385	ORD
	210-0006-00			3	WASHER,LOCK:#6 INTL,0.018THK,STL CD PL -----					78189	1206-00-00-0541C

## AC Power Controller

015-0253-01

Fig. & Index No.	Tektronix Part No.	Serial/Model No. Eff.	QTY	1	2	3	4	5	Name & Description	Mfr Code	Mfr Part Number
				1	2	3	4	5			
4-1-36	334-2218-00		1	WIRE SET, IDENT:DANGER						80009	334-2218-00
-37	204-0640-00		1	BODY,CONN,B-PT:FOR 3 FEM CONN, NYLON						00779	1-480304-0
-38	220-0610-00		3	HUT, EXTENDED WA:10-32 X 0.375 INCH, STL						83385	OBD
-39	441-1272-01		1	CHASSIS, CONT/MAIN						80009	441-1272-01
				(ATTACHING PARTS)							
-40	212-0535-00		4	SCREW,MACHINE:10-32 X 0.312 INCH, THK STL						83385	OBD
				-----							
-41	175-1833-00		1	CA ASSY,SP,ELEC:2,22 AMG,108.0 L						80009	175-1833-00
-42	346-0148-00		1	STRAP, GROUNDING:12 INCHES LONG						80009	346-0148-00
-43	343-0549-00		1	STRAP,TIEDOWN:0.091 W X 3.62 INCH LONG						59730	TY23H
-44	198-3335-00		1	WIRE SET,ELEC:						80009	198-3335-00
				4 . CONTACT,ELEC:CRIMP MT W/RED INS						77342	42599-4
				8 . CONTACT,ELEC:CRIMP MT W/BLUE INS						00779	42332-4
				2 . CONTACT,ELEC:FEMALE, FOR 0.084 DIA PIN						00779	60619-1
				131-1215-00							
				2 . CONTACT,ELEC:0.250 X 0.032 INCH TAB FIT						00779	61944-2
				210-0305-00						09922	8A10-10
				210-0306-00						09922	8A14EB
				1 . TERMINAL,LUG:#10 RING,SOLDERLESS,CU TIN						80009	161-0066-00
				161-0066-00							
				1 CABLE ASSY,PWR,:3 WIRE,98 INCH LONG							

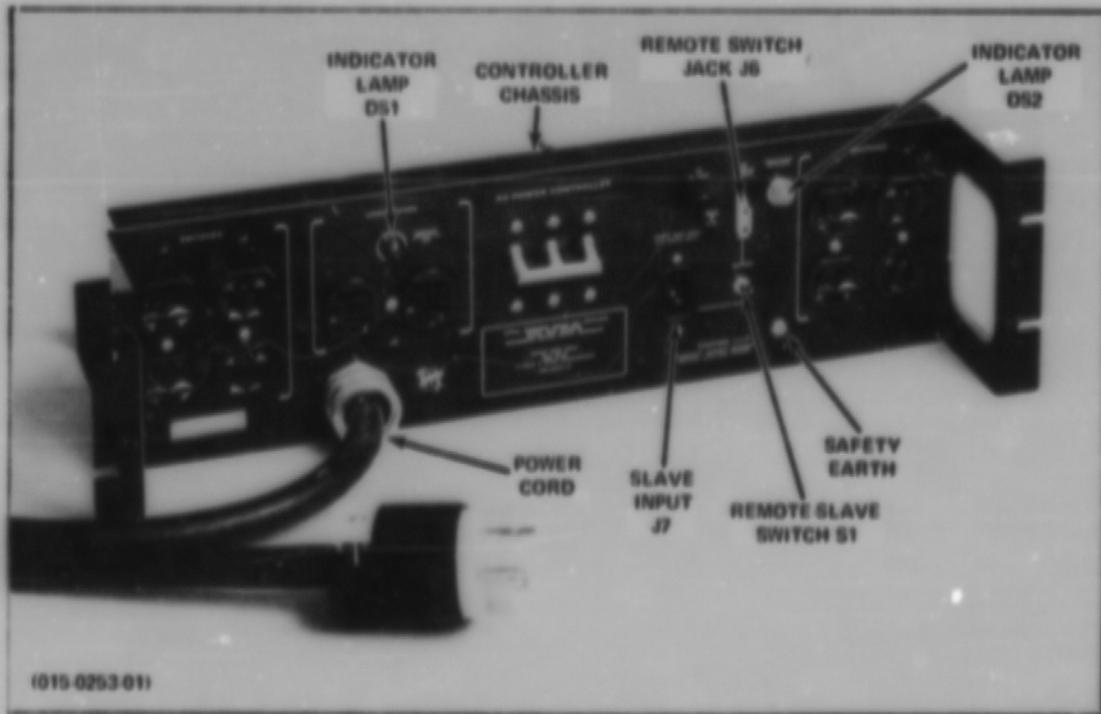


Figure 4-2. 115 V/30 A AC Power Controller (Front View)

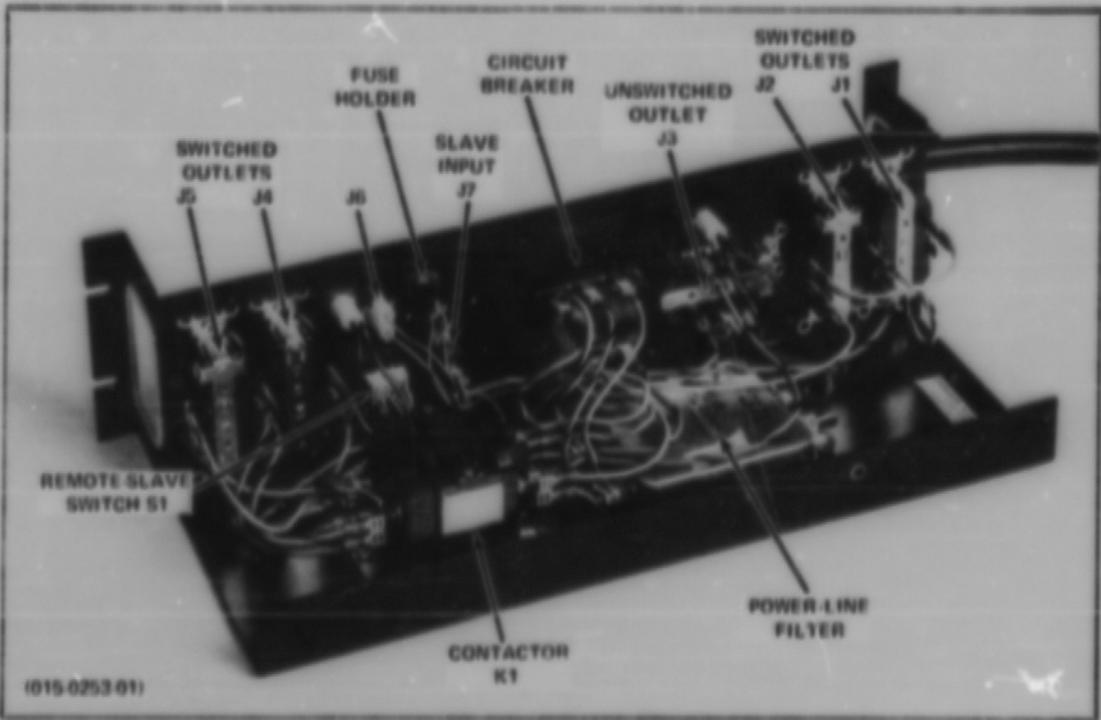
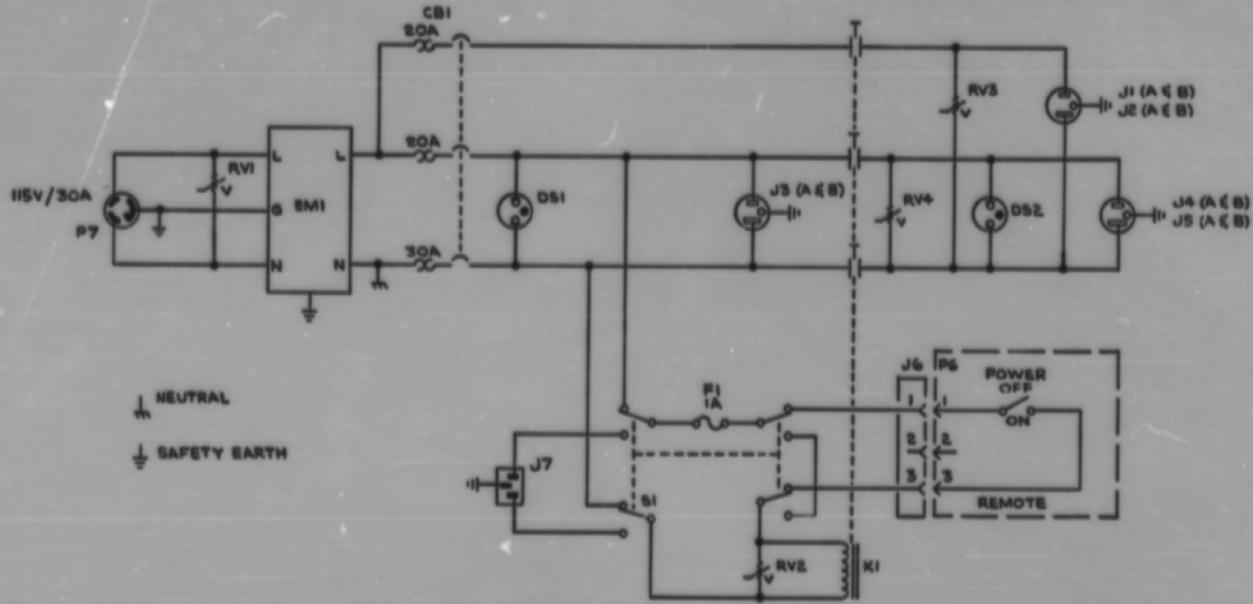


Figure 4-3. 115 V/30 A AC Power Controller (Back View)



015-0253-01  
TYPE 1A

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AC POWER CONTROLLER  
115V/30A

1076 EXP