

Instructions P6460

DATA ACQUISITION PROBE



4345-1

P6460 data acquisition probe.

INTRODUCTION

The P6460 is a 100 MHz data acquisition probe suitable for use with the 1240/1241 Logic Analyzer 1240D1 and 1240D2 Acquisition Cards and the DAS 91A24 and 91AE24 Data Acquisition Modules. The P6460 has nine data channels and a clock line. When used with the DAS, one of the data channels serves as a clock qualifier.

The P6460 probe can also be used with the following DAS modules:

91S16/32 Pattern Generation Module 92A16/16E Data Acquisition Module 92S16/32 Pattern Generation Module

These Instructions contain the service information for this probe. For convenience, put a copy of them in the back of the

service manual for the logic analyzer that the probe will usually be used with.

Labels

Two labels are included with your probe. The one with an 8 in the upper left corner and a C/Q in the upper right corner is for use with 1240/1241 Logic Analyzer. The label with a Q in the upper left corner and a CK in the upper right corner is for use with DAS91A24 and 91AE24 Data Aquisition Modules.

Operator's Information

This manual contains primarily service information. For operator's information, refer to the operator's manual of the instrument that the probe is to be used with, either the 1240/1241 Logic Analyzer Operator's Manual or the DAS 9100 Series Operator's Manual.

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ACCESSORIES

Standard Accessories:

1 Instruction Sheet	070-4345-00
1 Lead Set, 10 inch	012-0747-00
1 Package of 12 Probe Tips	
(each tip is a 206-0222-00)	020-1386-00
2 Ground (or VL) Sense Leads, 5 inch	
with Pomona Hook Tips (344-0267-00)	012-0989-00
2 Alligator Clips (substitute for hook	
tips above)	344-0046-00

When ordering the P6460 for the 92A16 use the part number 010-6460-16. This insures you will receive the appropriate standard accessories for the 92A16/16E listed below.

010-6460-16 Standard Accessories:

1 Instruction Sheet	070-4345-00
1 Lead Set, 5 inch	012-0987-00
2 Ground VL Sense Leads, 5 inch with	
Pomona Hook Tips (344-0267-00)	012-0989-00
2 Alligator Clips (substitute for hook	
tips above)	344-0046-00

Optional Accessories:

·	
Flying Lead Set, 5 inches long	012-0987-00
Flying Lead Set, 25 cm long	012-0800-00
40-pin Univ. Probe Intfc. Kit	020-1041-00
1240 Diagnostic Lead Set	198-5069-00
Diagnostic Lead Set, 10 inches long	012-1000-00
Package of 10 Ground (or VL) Sense	
Leads with Pomona Hook Tips	
(344-0267-00)	012-0989-01
GPIB Connector/Adapter	103-0209-00
IC Extractor, 16 pin	003-0709-00
Adapter, Test Clip, 16 DIP	015-0330-00
Adapter, Test Clip, 40 DIP, 10 cm	
cable (requires 380-0560-05 Adapter)	015-0339-02
Adapter, Test Clip, 40 DIP, 30 cm	
cable (requires 380-0560-05 Adapter)	015-0339-00
Adapter, required for use with 40 DIP	
Adapters	380-0560-05



Standard accessories for the P6460.

GROUND CONNECTIONS AND FREQUENCY

For clock operating frequencies up to 25 MHz, the 10-inch lead sets (012-0747-00 or 012-0800-00) with one USER'S GND lead connected are sufficient.

For clock operating frequencies above 25 MHz but below 50 MHz, 10-inch lead sets may be used if both USER'S GND leads are connected.

For frequencies above 50 MHz and noisy environments, be sure to use the 5-inch lead sets (012-0987-00) and both USER'S GND leads with alligator clips.

SERVICE INFORMATION

WARNING

Disconnect power before removing protective coverings, soldering, or replacing components.

TEKTRONIX FIELD SERVICE

Service of Tektronix products is available from Tektronix Service Centers around the world. Contact your local sales or service organization for more information.

SPECIFICATIONS

Table 1 ELECTRICAL SPECIFICATIONS

Characteristic	Performance Requirements	Supplemental Information
MODULE-TO-PROBE SIGNALS		
Max. Operating Power Requirements		$+5$ V (\pm 5%) at 600 mA when 20 output lines are terminated to $+3$ V through 60 Ω at 300 mA when all output lines are unterminated
PROBE-TO-MODULE SIGNALS		
Data Channel Signal		Differential ECL Vcc = +5 V Vee = Gnd
User's Ground Sense		$<$ 100 Ω to user's ground
Input Resistance	1 MΩ ± 1%	
Input Capacitance		5 pF nominal
Max. Non-Destructive Input Voltage Range		± 40 V (DC + peak AC)
Max. Voltage Between Any Two Inputs		± 60 V (DC + peak AC)
Operating Input Voltage Range		From -40 V to input threshold's voltage + 10 V (+ 30 V for RS-232 only)
Threshold Offset and Accuracy		\pm 0.25% of threshold \pm 50 mV
Minimum Input Swing		0.5 V p-p centered on the threshold
Minimum Pulse Width (with input 250 mV over the threshold from + 0.5 V and - 0.5 V)		4 ns at threshold

Table 2 ENVIRONMENTAL SPECIFICATIONS

Characteristic	Description		
Temperature Operating Storage	-15°C to +55°C -62°C to +75°C		
Humidity	95% to 97% relative humidity		
Altitude Operating Non-operating	4.5 km (15,000 ft.) 15 km (50,000 ft.)		
Electrical Discharge	5 kV maximum from 200 pf with 2K Ω series resistance		

STATIC PRECAUTIONS



Static discharge can damage any semiconductor in this instrument.

Observe the following precautions to avoid static damage:

- 1. Minimize handling of static-sensitive components.
- Transport and store static-sensitive components or assemblies in their original containers, or on a metal rail, or on conductive foam. Label any package that contains static-sensitive components or assemblies.
- Discharge the static voltage from your body by wearing a wrist strap while handling these components. Servicing static-sensitive assemblies should be performed only in a static-free work station by qualified service personnel.

Table 3
PHYSICAL SPECIFICATIONS

Characteristic	Description		
Weight	12 oz.		
Overall Dimensions			
Pod	4.5 in. long, 2.2 in. wide, 0.85 in. deep		
Cable	78.75 in. (2 m) ± 10%		

- 4. Nothing capable of generating or holding a static charge should be allowed on the work station surface.
- Keep the component leads shorted together whenever possible.
- 6. Pick up components by the body, never by the leads.
- 7. Do not slide the components over any surface.
- Avoid handling components in areas that have a floor or work-surface covering capable of generating a static charge.
- 9. Use a soldering iron that is connected to earth ground.
- Use only special anti-static suction type or wick type desoldering tools.

NOTE

Damage to electrical components may not be immediately apparent. Always follow the precautionary measures listed above when handling static-sensitive components.

PERFORMANCE CHECK

Specification Checked

The input resistance of each channel should be 1 M Ω ±1%.

Required Equipment

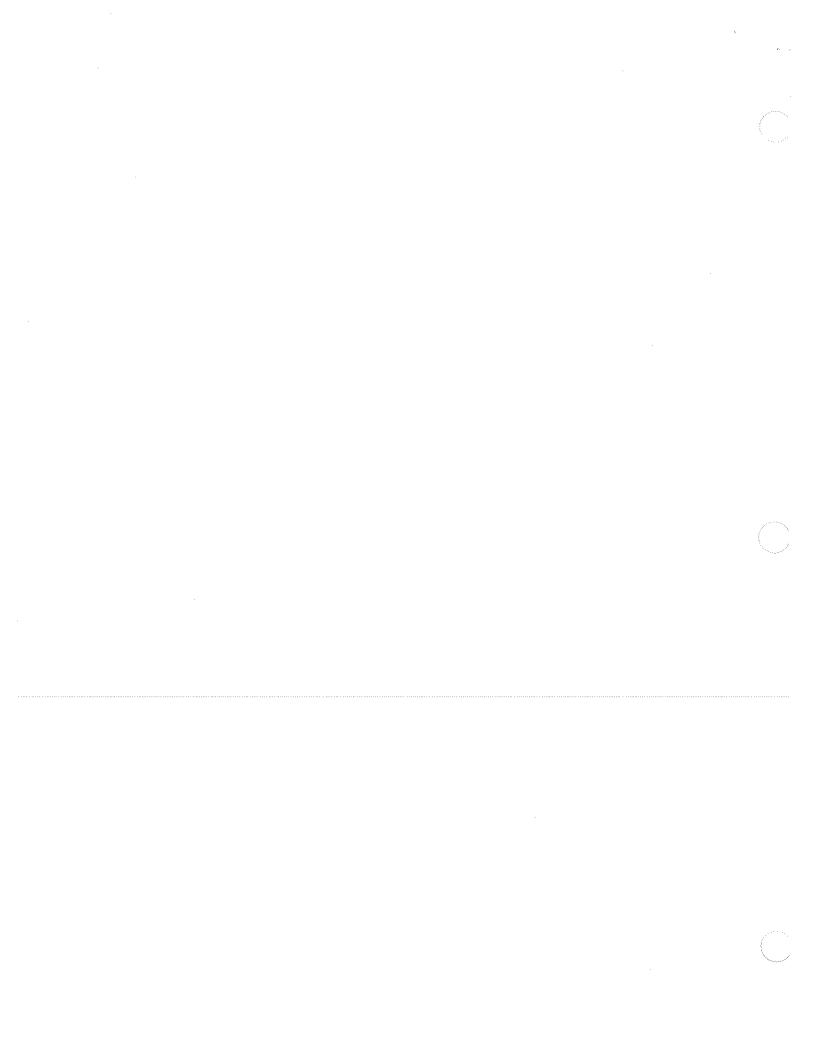
One digital multimeter with at least 0.2% accuracy at 1 $M\Omega.$ For example, the Tektronix DM 5010.

Procedure

1. With the probe disconnected, measure the resistance between the input to the channel you are checking and any other channel. Call this value Ra.

- Next, measure the resistance between the input to the channel you want to measure and a third channel. Call this value Rb.
- 3. Finally, measure the resistance between the two other channels. Call this value Rc.
- 4. Calculate the value of the input resistance of the original channel using:

$$Rinput = \frac{Ra + Rb - Rc}{2}$$



REPLACEABLE ELECTRICAL 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.

LIST OF ASSEMBLIES

A list of assemblies can be found at the beginning of the Electrical Parts List. The assemblies are listed in numerical order. When the complete component number of a part is known, this list will identify the assembly in which the part is located.

CROSS INDEX-MFR. CODE NUMBER TO MANUFACTURER

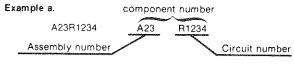
The Mfr. Code Number to Manufacturer index for the Electrical Parts List is located immediately after this page. The Cross Index provides codes, names and addresses of manufacturers of components listed in the Electrical Parts List.

ABBREVIATIONS

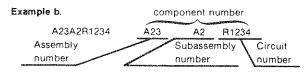
Abbreviations conform to American National Standard Y1.1.

COMPONENT NUMBER (column one of the Electrical Parts List)

A numbering method has been used to identify assemblies, subassemblies and parts. Examples of this numbering method and typical expansions are illustrated by the following:



Read: Resistor 1234 of Assembly 23



Read: Resistor 1234 of Subassembly 2 of Assembly 23

Only the circuit number will appear on the diagrams and circuit board illustrations. Each diagram and circuit board illustration is clearly marked with the assembly number. Assembly numbers are also marked on the mechanical exploded views located in the Mechanical Parts List. The component number is obtained by adding the assembly number prefix to the circuit number.

The Electrical Parts List is divided and arranged by assemblies in numerical sequence (e.g., assembly A1 with its subassemblies and parts, precedes assembly A2 with its subassemblies and parts).

Chassis-mounted parts have no assembly number prefix and are located at the end of the Electrical Parts List.

TEKTRONIX PART NO. (column two of the Electrical Parts List)

Indicates part number to be used when ordering replacement part from Tektronix.

SERIAL/MODEL NO. (columns three and four of the Electrical Parts List)

Column three (3) indicates the serial number at which the part was first used. Column four (4) indicates the serial number at which the part was removed. No serial number entered indicates part is good for all serial numbers.

NAME & DESCRIPTION (column five of the Electrical Parts List)

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 H6-1 can be utilized where possible.

MFR. CODE (column six of the Electrical Parts List)

Indicates the code number of the actual manufacturer of the part. (Code to name and address cross reference can be found immediately after this page.)

MFR. PART NUMBER (column seven of the Electrical Parts List)

Indicates actual manufacturers part number

CROSS INDEX - MFR. CODE NUMBER TO MANUFACTURER

Mfr. Code	Manufacturer	Address	City, State, Zip Code
01121	ALLEN-BRADLEY CO	1201 SOUTH 2ND ST	MILMAUKEE WI 53204
04222	AVX CERAMICS DIV OF AVX CORP	19TH AVE SOUTH P 0 BOX 867	MYRTLE BEACH SC 29577
07263	FAIRCHILD COMERA AND INSTRUMENT CORP SENICONDUCTOR DIV	464 ELLIS ST	MOUNTAIN VIEW CA 94042
19701	MEPCO/ELECTRA INC A NORTH AMERICAN PHILIPS CO	P 0 80X 760	MINERAL MELLS TX 76067
22526	DU PONT E I DE NEMOURS AND CO INC DU PONT CONNECTOR SYSTEMS	30 HUNTER LANE	CAMP HILL PA 17011
24546	CORNING GLASS WORKS	550 HIGH ST	BRADFORD PA 16701
27014	NATIONAL SEMICONDUCTOR CORP	2900 SEMICONDUCTOR DR	SANTA CLARA CA 95051
80009	TEKTRONIX INC	4900 S W GRIFFITH DR P O BOX 500	BEAVERTON OR 97077
81073	GRAYHILL INC	561 HILLGROVE AVE P O BOX 373	LA GRANGE IL 60525

Component No.	Tektronix Part No.	Serial/Assembly No. Effective Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A70C104 A70C121 A70C122 A70C122 A70CR115 A70J126	283-0186-00 283-0177-00 283-0177-00 152-0333-00 131-2615-00		CKT BOARD ASSY:MAIN (NOT REPLACEABLE-ORDER 672-1119-01) CAP,FXD,CER DI:27PF,5%,50V CAP,FXD,CER DI:1UF,+80-20%,25V CAP,FXD,CER DI:1UF,+80-20%,25V SEMICONO DVC,DI:SW,SI,55V,200MA,D0-35 CONN,RCPT,ELEC:CKT BD,RTANG,17/34 CONT	04222 04222 04222 07263 22526	SR155A 270JAA SR302E105ZAATR SR302E105ZAATR F0H-6012 65820-005
A70R106 A70R109 A70R221 A70R222 A70R309 A70R313	317-0100-00 307-0706-00 321-0292-07 321-0463-00 317-0151-00 317-0510-00		RES,FXD,CMPSN:10 OHM,5%,0.125M RES NTNK,FXD,FI:4,10K OHM,2%,0.2M EA RES,FXD,FILM:10.7K OHM,0.1%,0.125M,TC=T9 RES,FXD,FILM:649K OHM,1%,0.125M RES,FXD,CMPSN:150 OHM,5%,0.125M RES,FXD,CMPSN:51 OHM,5%,0.125M	01121 01121 24546 19701 01121	881005 2088103 NE55E1072B 5033ED649K0F 881515 B85105
A70U115 A70N120	156-0625-01 195-1715-00		MICROCKT,DGTL:8 BIT PRL LOAD SHIFT RGTR LEAD,ELECTRICAL:26 AMG,2.5 L,9-2	27014 80009	74C165NA+ 195-1715-00
			CHASSIS PARTS		
0L319 J100 J135 J200 J300 J301	175-1580-01 131-1811-00 196-0797-00 131-1811-00 131-1811-00 131-1812-00		CABLE,SP,ELEC:26 ANG SOLID THISTED PAIR TERM SET,PIN:10,0.025 SQ ON 0.15 CTR FLEX CIRCUIT:36 CONDUCTOR,COPPER TERM SET,PIN:10,0.025 SQ ON 0.15 CTR TERM SET,PIN:10,0.025 SQ ON 0.15 CTR TERM SET,PIN:10,0.025 SQ ON 0.15 CTR	80009 22526 80009 22526 22526 22526	175-1580-01 65595-110 196-0797-00 65595-110 65595-110 65603-110
R104 R105 R107 R108 R204 R205	317-0111-00 317-0111-00 317-0111-00 317-0111-00 317-0111-00 317-0111-00		RES,FXD,CMPSN:110 OHN,5%,0.125H RES,FXD,CMPSN:110 OHN,5%,0.125H RES,FXD,CMPSN:110 OHN,5%,0.125H RES,FXD,CMPSN:110 OHN,5%,0.125H RES,FXD,CMPSN:110 OHN,5%,0.125H RES,FXD,CMPSN:110 OHN,5%,0.125H	01121 01121 01121 01121 01121 01121	881115 881115 881115 881115 881115 881115
R208 R304 R306 R308 S100 U302	317-0111-00 317-0111-00 317-0111-00 317-0111-00 260-0735-01		RES,FXD,CMPSN:110 OHM,5%,0.125M RES,FXD,CMPSN:110 OHM,5%,0.125M RES,FXD,CMPSN:110 OHM,5%,0.125M RES,FXD,CMPSN:110 OHM,5%,0.125M SMITCH,PUSH:T,NO CONTACT,BLACK BTN MICROCIRCUIT,DI:LOGIC ACQ CIRCUIT (NOT REPLACEABLE,ORDER 672-1119-01)	01121 01121 01121 01121 01121 81073	881115 881115 881115 881115 39-3

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DIAGRAMS AND CIRCUIT BOARD ILLUSTRATIONS

Symbols

Graphic symbols and class designation letters are based on ANSI Standard Y32.2-1975.

Logic symbology is based on ANSI Y32.14-1973 in terms of positive logic. Logic symbols depict the logic function performed and may differ from the manufacturer's data.

The overline on a signal name indicates that the signal performs its intended function when it is in the low state.

Abbreviations are based on ANSI Y1.1-1972.

Other ANSI standards that are used in the preparation of diagrams by Tektronix, Inc. are:

Y14.15, 1966 Drafting Practices.

Y14.2, 1973 Line Conventions and Lettering.

Y10.5, 1968 Letter Symbols for Quantities Used in Electrical Science and Electrical

Engineering.

American National Standard Institute 1430 Broadway New York, New York 10018

Component Values

Electrical components shown on the diagrams are in the following units unless noted otherwise:

Capacitors = Values one or greater are in picofarads (pF). Values less than one are in microfarads (μF) .

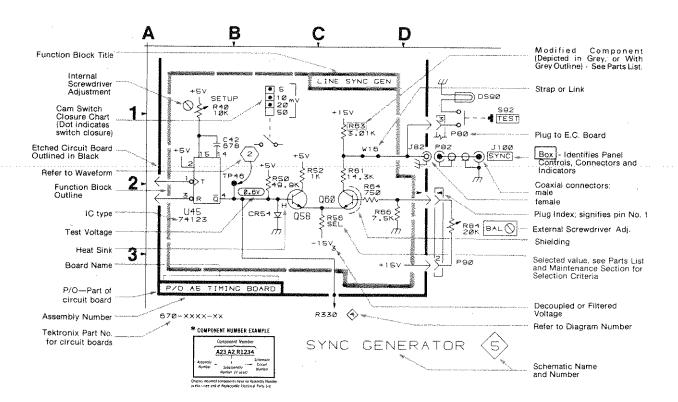
Resistors = Ohms (Ω)

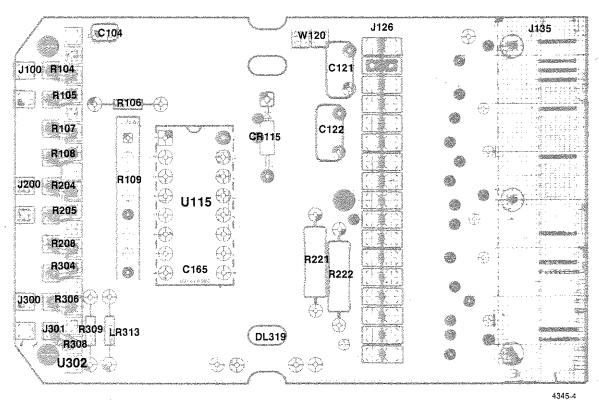
The information and special symbols below may appear in this manual.-

Assembly Numbers and Grid Coordinates

Each assembly in the instrument is assigned an assembly number (e.g., A20). The assembly number appears on the circuit board outline on the diagram, in the title for the circuit board component location illustration, and in the lookup table for the schematic diagram and

corresponding component locator illustration. The Replaceable Electrical Parts list is arranged by assemblies in numerical sequence; the components are listed by component number *(see following illustration for constructing a component number).





P6460 Board

Static Sensitive Devices
See Maintenance Section

COMPONENT NUMBER EXAMPLE

	Component Number
	A23,A2,R1234
Assembly Number	Schematic Subassembly Sumber Number (if used)

Chassis mounted components have no Assembly Number prefix—see end of Replaceable Electrical Parts East.

... ...

REPLACEABLE MECHANICAL 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

Assembly and/or Component Attaching parts for Assembly and/or Component

Detail Part of Assembly and/or Component Attaching parts for Detail Part

. . . * . . .

Parts of Detail Part Attaching parts for Parts of Detail Part

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 H6-1 can be utilized where possible.

ABBREVIATIONS

0	INCH	ELCTRN	ELECTRON	IN	INCH	SE	SINGLE END
#	NUMBER SIZE	ELEC	ELECTRICAL	INCAND	INCANDESCENT	SECT	SECTION
ACTR	ACTUATOR	ELCTLT	ELECTROLYTIC	INSUL	INSULATOR		SEMICONDUCTOR
ADPTR	ADAPTER	ELEM	ELEMENT	INTL	INTERNAL	SHLD	SHIELD
ALIGN	ALIGNMENT	EPL	ELECTRICAL PARTS LIST	LPHLDA	LAMPHOLDER	SHLDR	SHOULDERED
AL	ALUMINUM	EQPT	EQUIPMENT	MACH	MACHINE	SKT	SOCKET
ASSEM	ASSEMBLED	EXT	EXTERNAL	MECH	MECHANICAL	SL.	SLIDE
ASSY	ASSEMBLY	FIL	FILLISTER HEAD	MTG	MOUNTING	SLFLKG	SELF-LOCKING
ATTEN	ATTENUATOR	FLEX	FLEXIBLE	NIP	NIPPLE	SLVG	SLEEVING
AWG	AMERICAN WIRE GAGE	FLH	FLAT HEAD			SPR	SPRING
8D	BOARD	FLTR	FILTER	OBD	ORDER BY DESCRIPTION	SQ	SQUARE
BRKT	BRACKET	FR	FRAME or FRONT	OD	OUTSIDE DIAMETER	SST	STAINLESS STEEL
BAS	BRASS	FSTNR	FASTENER	OVH	OVAL HEAD	STL	STEEL
BRZ	BRONZE	FT	FOOT	PH BRZ	PHOSPHOR BRONZE	SW	SWITCH
BSHG	BUSHING	FXD	FIXED	PL	PLAIN or PLATE	T	TUBE
CAB	CABINET	GSKT	GASKET	PLSTC	PLASTIC	TERM	TERMINAL
CAP	CAPACITOR	HDL	HANDLE	PN	PART NUMBER	THD	THREAD
CER	CERAMIC	HEX	HEXAGON .	PNH	PAN HEAD	THK	THICK
CHAS	CHASSIS	HEX HD	HEXAGONAL HEAD	PWR	POWER	TNSN	TENSION
CKT	CIRCUIT	HEX SOC	HEXAGONAL SOCKET	RCPT	RECEPTACLE	TPG	TAPPING
COMP	COMPOSITION	HLCPS	HELICAL COMPRESSION	RES	RESISTOR	TRH	TRUSS HEAD
CONN	CONNECTOR	HLEXT	HELICAL EXTENSION	RGD	RIGID	V	VOLTAGE
COV	COVER	HV	HIGH VOLTAGE	RLF	RELIEF	VAR	VARIABLE
CPLG	COUPLING	IC	INTEGRATED CIRCUIT	RTNR	RETAINER	W/	WITH
CRT	CATHODE RAY TUBE	ID	INSIDE DIAMETER	SCH	SOCKET HEAD	WSHR	WASHER
DEG	DEGREE	IDENT	IDENTIFICATION	SCOPE	OSCILLOSCOPE	XEMB	TRANSFORMER
DWR	DRAWER	IMPLR	IMPELLER	SCR	SCREW	XSTR	TRANSISTOR

CROSS INDEX - MFR. CODE NUMBER TO MANUFACTURER

Mfr. Code	Manufacturer	Address	City, State, Zip Code	
06383	PANOUIT CORP	17301 RIDGELAND	TINLEY PARK IL 60477	
73743	FISCHER SPECIAL NFG CO	446 MORGAN ST	CINCINNATI OH 45206	
77900	SHAKEPROOF	SAINT CHARLES RD	ELGIN IL 60120	
	DIV OF ILLINOIS TOOL WORKS			
80009	TEKTRONIX INC	4900 S W GRIFFITH DR	BEAVERTON OR 97077	
		P 0 B0X 500		
TK1374	TRI-TEC ENGINEERING CORP	13130 S NORMANDIE AVE	gardena ca 90249	
TK1415	CABOT CORP	7911 ZIONSVILLE RD	INDIANAPOLIS IN 46268	
	E.A.R. DIV			

Fig. &	war a s						
Index	Tektronix		sembly No.			Mfr.	
No.	Part No.	Effective	<u> Dscont</u>	Qty_	12345 Name & Description	Code	Mfr. Part No.
1-	***************************************			1	P6460:PROBE,DATA ACQ		
-1	334-4855-00			1	.MARKER, IDENT: MKD DIAGNOSTIC	80009	334-4855-00
-2	380-0711-00			1	.HOUSING ,PROBE: UPPER ,PC	80009	380-0711-00
-3	348-0390-00			1	.CUSHION, PROBE: 1.5 X 2.0 X 0.125, PVC ALLOY		ORDER BY DESCR
-4	380-0710-00			1	.HOUSING PROBE: LOWER PC	80009	380-0710-00
					. (ATTACHING PARTS)	00003	200 01 10 00
-5	211-0086-00			4	.SCREM, MACHINE: 4-40 X 0.75, FLH, 100 DEG, STL	80009	211-0086-00
-6	210-0406-00			Ą	.NUT PLAIN HEX:4-40 X O. 188 BRS CD PL		
					.(END ATTACHING PARTS)		12101 33
-7	200-2731-00			2	.COVER, HOLE: POLYCARBONATE, GRAY	80009	200-2731-00
-8	175-6807-00		8036539	1	.CA ASSY,PROBE:2 METERS		ORDER BY DESCR
	175-9843-00	8036540		1	.CA ASSY,SP,ELEC:22,28 AMG,76.0 L		ORDER BY DESCR
	672-1119-01			1	.CIRCUIT BD ASSY:MAIN		672-1119-01
-9				1	SMITCH, PUSH: (SEE S100 REPL)		
40					(ATTACHING PARTS)		
-10	358-0660-00			1	BUSHING, SM NTG: AL	80009	358-0660-00
-11	210-0008-00			1	WASHER,LOCK:#8 INTL,O.O2 THK,STL	77900	1208-00-00-0541C
44	202 2024 46				(END ATTACHING PARTS)		
-12	358-0674-00			1	STRAIN RLF,CA:LOMER	80009	358-0674-00
-13	358-0675-00			1	STRAIN RLF,CA:UPPER	80008	358-0675-00
-14	361-0758-01			1	SPACER, PROBE: ACETAL SLATE GRAY	80009	361-0758-01
-15 -16				1	TERM SET, PIN: (SEE J100, J200, J300 REPL)		
- 10 -17	348-0782-00			2	CUSHION, HYBRIO: SILCON SPONGE	80009	348-0782-00
-17 -18	346-0120-00			1	TERM SET, PIN: (SEE J301 REPL)		
-10 -19	343-1095-00			2	STRAP, TIEDOHN, E:5.5 L NIN, PLASTIC		SST1.5M
-20	426-1985-00			1	CLAMP, HYB CKT: 0.295 ID, ALUNINUM		343-1095-00
-21	386-5017-00			7	FRAME, MINDOM:		426-1985-00
-22	343-1094-00			1	PLATE, PRESSURE:		386-5017-00
-23	196-0797-00			1	RETAINER, CONN: SILICONE FOAN		343-1094-00
-24	120-0131-00			4	FLEX CIRCUIT:36 CONDUCTOR, COPPER	80009	196-0797-00
-25				1	CKT BOARD ASSY:MAIN(SEE A70 REPL)		
				1	CONN,RCPT,ELEC:(SEE A70J126 REPL)		

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Fig. & Index No.	Tektronix Part No.	Serial/Ass Effective	embly No. Dscont	Qty	12345	Name & Description	Mfr. Code	Mfr. Part No.
2-					STANDARD	ACCESSORIES		
	070-4345-00 020-0720-00 020-1386-00 012-0747-00 012-0989-00 334-4854-00 334-4856-00 344-0046-00	B010100 B035540	B035539	1 1 1 2 1 1 2	ACCESSOR ACCESSOR LEAD SET LEAD SET ,BLACK M. MARKER, II MARKER, II	CHNICAL:INSTR Y KIT:PKG OF 12 Y KIT:PACKAGE OF 12 ,ELEC:10 WIDE,25 CML ,ELEC:GROUND OR VL SENSE LEAD 4.0 L YPAMONA CLIP DENT:MKD DATA ACQUISITION PROBE DENT:MKD P6460 ACQUISITION PROBE CTRICAL:ALLIGATOR,1.56 L	80009	020-0720-00 020-1386-00 012-0747-00 012-0989-00 334-4854-00 334-4856-00
					OPTIONAL	ACCESSORIES		
	003-0709-00 012-0556-00 012-0800-00 012-0987-00 012-0989-01 012-1000-00 015-0330-00 015-0339-02 015-0339-02 103-0209-00 380-0560-05			1 1 1 1 1 1 1 1 1 1 1 1 1	LEAD SET LEAD SET LEAD SET ,BLACK M, LEAD SET ADPTR, TES ADPTR, TES ADAPTER, C	R,1C:16 PIN TEST CLIP ELEC:DIAGNOSTIC ELEC:10.WIDE,9.843 L ELEC:10 WIDE,5.0 L ELEC:GROUND OR VL SENSE LEAD 4.0 L PAMONA CLIP ELEC:12 WIDE,10.0 L ET CLIP:16 DIP ET CLIP:40 DIP ET CLIP:40 DIP ET CLIP:40 DIP ENN:GPIB TO PROBE ERM:MALE ADAPTER	80009 80009 80009 80009 80009 80009 80009 80009 80009	003-0709-00 012-0556-00 012-0800-00 012-0987-00 012-0989-01 012-1000-00 015-0330-00 015-0339-00 015-0339-02 103-0209-00 380-0560-05