

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

# TM 506A POWER MODULE

INSTRUCTION MANUAL

Tektronix, Inc. P.O. Box 500 Beaverton, Oregon 97077 070-6929-00 Product Group 75

Serial Number \_\_\_\_

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# **INSTRUMENT SERIAL NUMBERS**

Each instrument has a serial number on a panel insert, tag, or stamped on the chassis. The first number or letter designates the country of manufacture. The last five digits of the serial number are assigned sequentially and are unique to each instrument. Those manufactured in the United States have six unique digits. The country of manufacture is identified as follows:

- B000000 Tektronix, Inc., Beaverton, Oregon, USA
- 100000 Tektronix Guernsey, Ltd., Channel Islands
- 200000 Tektronix United Kingdom, Ltd., London
- 300000 Sony/Tektronix, Japan
- 700000 Tektronix Holland, NV, Heerenveen, The Netherlands

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THE FOLLOWING SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED PERSONNEL ONLY. TO AVOID PERSONAL INJURY, DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.

# SERVICE PART

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**Change Information** 

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# **OPERATORS SAFETY SUMMARY**

The general safety information in this part of the summary is for both operating and servicing personnel. Specific warnings and cautions will be found throughout the manual where they apply, but may not appear in this summary.

# TERMS

# In This Manual

CAUTION statements identify conditions or practices that could result in damage to the equipment or other property.

WARNING statements identify conditions or practices that could result in personal injury or loss of life.

# As Marked on Equipment

CAUTION indicates a personal injury hazard not immediately accessible as one reads the marking, or a hazard to property including the equipment itself.

DANGER indicates a personal injury hazard immediately accessible as one reads the marking.

# SYMBOLS

### In This Manual



This symbol indicates where applicable cautionary or other information is to be found.

# As Marked on Equipment



DANGER—High voltage.

Protective ground (earth) terminal.

ATTENTION—refer to manual.

# **Power Source**

This product is intended to operate from a power source that will not apply more than 250 volts rms between the supply conductors or between either supply conductor and ground. A protective ground connection by way of the grounding conductor in the power cord is essential for safe operation.

# **Grounding the Product**

This product is grounded through the grounding conductor of the power cord. To avoid electrical shock, plug the power cord into a properly wired receptacle before connecting to the product input or output terminals. A protective ground connection by way of the grounding conductor in the power cord is essential for safe operation.

# **Danger Arising From Loss of Ground**

Upon loss of the protective-ground connection, all accessible conductive parts (including knobs and controls that may appear to be insulating) can render an electric shock.

# **Use the Proper Power Cord**

Use only the power cord and connector specified for your product.

Use only a power cord that is in good condition.

For detailed information on power cords and connectors, see maintenance section.

Refer cord and connector changes to qualified service personnel.

# **Use the Proper Fuse**

To avoid fire hazard, use only the fuse of correct type, voltage rating and current rating as specified in the parts list for your product.

Refer fuse replacement to qualified service personnel.

# **Do Not Operate in Explosive Atmospheres**

To avoid explosion, do not operate this product in an explosive atmosphere unless it has been specifically certified for such operation.

# **Do Not Remove Covers or Panels**

To avoid personal injury, do not remove the product covers or panels. Do not operate the product without the covers and panels properly installed.

# SERVICE SAFETY SUMMARY

# FOR QUALIFIED SERVICE PERSONNEL ONLY

Refer also to the preceding Operators Safety Summary.

# **Do Not Service Alone**

Do not perform internal service or adjustment of this product unless another person capable of rendering first aid and resuscitation is present.

# Use Care When Servicing With Power On

Dangerous voltages exist at several points in this product. To avoid personal injury, do not touch exposed connections and components while power is on. Disconnect power before removing protective panels, soldering, or replacing components.

# **Power Source**

This product is intended to operate from a power source that will not apply more than 250 volts rms between the supply conductors or between either supply conductor and ground. A protective ground connection by way of the grounding conductor in the power cord is essential for safe operation.

# SPECIFICATION

# INTRODUCTION

# Description

The TEKTRONIX TM 506A Power Module is a sixcompartment mainframe for the TM 500—Series of modular instrumentation. It accepts up to six independently functional plug-in modules to form a compact, versatile and low cost instrumentation system. The TM 506A is a basic power source for plug-in modules of the TM 500 Series family. It provides unregulated dc and ac supplies and non-dedicated power transistors for plug-in usage.

# Accessories

Refer to the accessories list in the Replaceable Mechanical Parts list at the rear of this manual for part numbers. **Standard Accessories** 

1 Instruction Manual 1 Power Cord (U.S.)

# Options

Refer to the Options section of this manual for information on instrument options.

## **Performance Conditions**

The values listed below are valid only when the instrument is operated at an ambient temperature between  $0^{\circ}$ C and  $50^{\circ}$ C.

# **ELECTRICAL CHARACTERISTICS** PER/COMPARTMENT

# Table 1-1

VOLTAGE SUPPLIES

Characteristics	Performance Requirements	Supplemental Information	
+33.5 Vdc			
Tolerance <sup>a</sup>		+23.7 V to +40.0 V	
PARD <sup>b</sup>		≤2.5 V p to p.	
Maximum Load		350 mA.	
Maximum Load di/dt		10 mA/µs	
-33.5 Vdc			
Tolerance <sup>a</sup>		-23.7 V to -40.0 V	
PARD <sup>b</sup>		<2.5 V p to p.	
Maximum Load		350 mA.	
Maximum Load di/dt		10 mA/µs	
+11.5 Vdc			
Tolerance <sup>a</sup>		+7.6 V to +16.0 V	
PARD <sup>b</sup>		<2.5 V p to p.	
Maximum Load		3 A per compartment, 10 A total	
Maximum Load di/dt		20 mA/µs	
25 Vac (3 each)			
Range		25.0 V rms +10%, -15% floating	
Maximum Load Standard compartment High power compartment		25 VA 62.5 VA	
Maximum Floating V		350 V peak	
17.5 Vac			
Range		20.5 V +10%, -20% grounded center tap	
Maximum Load		350 mA rms	
MAXIMUM PLUG-IN POWER <sup>c</sup> DRAW FROM MAINFRAME Standard compartment High power compartment		30 W dc or 50 VA ac 30 W dc or 125 VA	
COMBINED POWER DRAW <sup>c</sup> SHARING LIMITATION Standard compartment High power compartment		VA ac + 2.1 (Watts dc) ≤50.	

Worst case low line full load and high line - no load values including PARD.
 Periodic and Random Deviation. See: Nema Standards Publication PY1-1972.
 \*At nominal line voltage.

# Table 1-2 TOTAL POWER DRAW FROM MAINFRAME

Characteristics	Performance Requirements	Supplemental Information
TOTAL POWER DRAW <sup>a</sup>		VA ac + 2.1 (watts dc) ≤375.
(all compartments combined)		

•At nominal line voltage.

# Table 1-3 SERIES PASS TRANSISTORS

Characteristics Performance Requirements		Supplemental Information		
ТҮРЕ		One each NPN and PNP per compartment.		
MAXIMUM DISSIPATION Standard compartment		7.5 W each, 15 W total		
High power compartment		30 W each, 50 W total		

# Table 1-4 SOURCE POWER REQUIREMENTS

Characteristics	Performance Requirements	Supplemental Information		
VOLTAGE RANGES		Selectable 100 V, 120 V, 220 V, and 240 V nominal line $\pm 10\%$ .		
LINE FREQUENCY		48 Hz to 66 Hz.		
MAXIMUM POWER CONSUMPTION		Approximately 400 W.		
FUSE DATA				
100 V, 120 V Ranges		4 A, 3 AG, slow blow, 250 V.		
220 V, 240 V Ranges		2 A, 3 AG, slow blow, 250 V.		

# Table 1-5 MISCELLANEOUS

Characteristics	Performance Requirements	Supplemental Information
MAXIMUM RECOMMENDED PLUG-IN POWER DISSIPATION		
One-Wide		15 W.
Two-Wide		35 W.

# **PHYSICAL CHARACTERISTICS**

#### **Characteristics** Description TEMPERATURE Meets MIL-T-28800D, class 5. Operating<sup>b</sup>: $0^{\circ}C$ to $+50^{\circ}C$ Non-Operating: -55°C to +75°C HUMIDITY<sup>b</sup>: 95% RH, 0°C to 50°C Exceeds MIL-T-28800D, class 5. ALTITUDE Operating<sup>b</sup>: 4.6 km (15,000 ft.) Exceeds MIL-T-28800D, class 5. 15 km (50,000 ft) Non-operating: VIBRATION: 0.25 mm (0.010") peak to peak, 5 See footnote b. Hz to 55 Hz, 75 minutes. SHOCK: 20 g's (1/2 sine) 11 ms duration, 3 See footnote b. shocks in each direction along 3 major axes, 18 total shocks. **BENCH HANDLING:** 12 drops from 45 degrees, 4" or Meets MIL-T-28800D, class 5. equilibrium, whichever occurs first. TRANSPORTATION: Qualified under National Safe Transit Association Preshipment Test Procedures 1A-B-1 and 1A-B-2. Electro-mechanical compatability within limits of F.C.C. Regulations, Part 15, Subpart EMC:

# Table 1-6 ENVIRONMENTAL<sup>a</sup>

#### •With plug-ins.

**ELECTRICAL DISCHARGE:** 

<sup>b</sup>Meets MIL-T-28800D, class 5 with plug-ins (0.015" displacement, 30 g's shock).

J, Class A.

# Table 1-7 MECHANICAL

20 kV maximum discharge applied to instrument case.

Characteristics	Description
NOMINAL WEIGHT (Without Plug-ins)	12.3 kg (27 lbs)
OVERALL DIMENSIONS	
Length: Width: Height:	48.958 cm (19.275 in.) 44.473 cm (17.509 in.) 19.38 cm (7.63 in.)

# **OPERATING INSTRUCTIONS**

# INTRODUCTION

This section of the manual contains instructions on preparing the power module for use, installing plug-in modules, and repackaging the power module.

# **Power Source**

The TM 506A is designed to operate from a power source with its neutral at or near earth (ground) potential with a separate safety-earth conductor. It is not intended for operation from two phases of a multi-phase system.



AC POWER SOURCE AND CONNECTION. This instrument operates from a single-phase power source. It has a three-wire power cord and two-pole, three-terminal grounding-type plug. The voltage to ground (earth) from either pole of the power source must not exceed the maximum rated operating voltage, 250 V.

Before making connection to the power source, determine that the instrument is adjusted to match the voltage of the power source, and has a suitable two-pole, three-terminal grounding-type plug. Refer any changes to qualified service personnel.

**GROUNDING.** This instrument is safety class I equipment (IEC designation). All accessible conductive parts are directly connected through the grounding conductor of the power cord to the grounding contact of the power plug.

The power input plug must only be inserted in a mating receptacle with a grounding contact. Do not defeat the grounding connection. Any interruption of the grounding connection can create an electric shock hazard.

For electric shock protection, the grounding connection must be made before making connection to the instrument's input or output terminals.

# **Power Usage/Loading Considerations**

With six plug-in modules installed, the TM 506A can require up to 375 W of power at the upper limits of the high line voltage ranges. Actual power consumption depends on the particular module combination and operating mode selected at any one time.

The power capability of the TM 506A can best be used by carefully planning the plug-in configuration, the external loads, and the resulting power distributions. Optimum conditions may be obtained by:

- 1. Having equal loads in all compartments.
- 2. Dissipating as much power as possible in the external loads.
- 3. Operating the system in an ambient temperature near 25°C.

Each plug-in is provided access to a pair of heat-sinked. series-pass transistors—one NPN and the other PNP. These transistors enable the plug-in to operate in power ranges not possible if the power were to be dissipated within the plug-ins.

# **Fuse Replacement**

To check or replace a fuse, perform the following:

- 1. Turn off the power to the power module, and disconnect the power cord from the instrument.
- 2. See Fig. 2-1. To check or replace the Main Power Fuse, press downward on the tab located on the Line Voltage Selector just above the power cord receptacle. The door will open, and the fuse can be inspected or replaced.
- 3. Close the door to reconnect the fuse.
- 4. To check Power Supply fuses, use a small screwdriver to remove each of the three fuseholders, located on the rear panel, on the right-hand side when viewing the rear panel. Remove and replace fuses as required.

# NOTE

The fuse value labeling on the instrument rear panel should read: "4A SLOW and 2A SLOW".

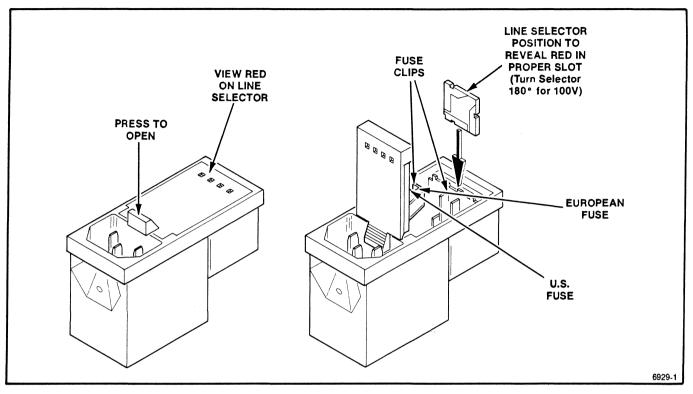


Fig. 2-1. Line Voltage Selection and Main Fuse Replacement.

# **Line Voltage Selection**

The line voltage selector is part of the line cord plug assembly, located on the rear of the power module. Verify that the voltage shown in the selector window is correct for the line voltage available.

If the displayed voltage selection is incorrect or the fuse needs replacement, perform the following procedure. Refer to Fig. 2-1. (The voltage is indicated by the red-marked window.)

- Make certain that the power module power switch is turned off and the line cord is not plugged into the line voltage connector.
- 2. See Fig. 2-1. Press downward on the tab located on the Line Voltage Selector just above the power cord receptacle. This opens the selector door.
- 3. Using a small screwdriver, gently pry, first on one edge, then the other, to remove the line selector card. This etched circuit card is approximately 3/4" square and 1/8" thick.

- 4. Note that on each edge of the selector card there is a red mark, but that the mark is in a different position on the edge.
- 5. Orient the selector card for the desired voltage range, and press the card into its receptacle.
- 6. Ensure that the installed fuse matches the range selected.
- 7. Close the selector door. The proper range should show through the correct one of the four windows.
- Reconnect the power cord. The TM 506A is ready for use.

# **Operating Temperatures**

The TM 506A can be operated in an ambient air temperature range of 0°C to +50°C. Since the TM 506A can be stored in temperatures between -55°C and +75°C, allow the instrument's chassis to return to within the temperature operating limits before applying power.

#### **Operating Instructions—TM 506A**

Cabling

5	$\sim$	$\sim$	$\sim$	~	$\sim$	$\sim$	2
5	C A	U	T	I	0	N	ζ
	$\sim$						

Remove power cord before attempting cable installation.

For convenience, cabling from the front of the power module to the rear panel may be run through the air intake and cable raceway as shown in Fig. 2-2. To install this cabling, first remove the access panel on the rear of the power module. See Fig. 2-3. Next remove the two bottom panel retainer screws and the bottom panel retainers. Slide the bottom panel out from the rear of the instrument. Pass the cable through the front air intake, across the bottom of the plug-in support rails and out the access panel. Replace the power module bottom cover.



To ensure proper cooling, do not operate the power module with any cover removed.

# Table Top Use

The power module may be operated with the front raised. To raise the front of the instrument extend the front bail as shown in Fig. 2-4.

# **Rackmounting Instructions**

**Cooling.** At least 1-inch clearance is recommended above and below the power module. This is necessary to insure proper cooling.

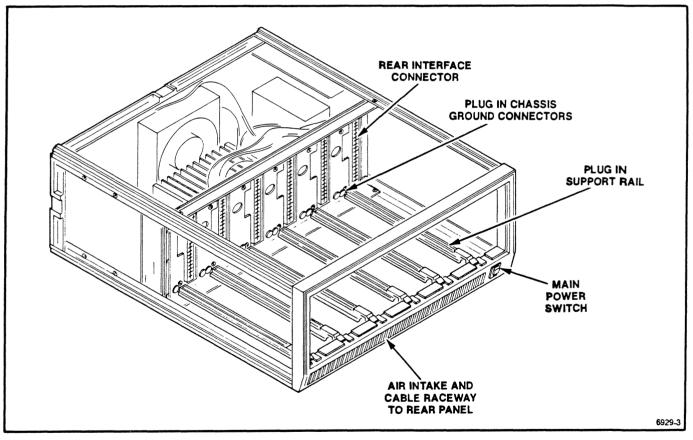


Fig. 2-2. TM 506A front view.

**Operating Instructions—TM 506A** 

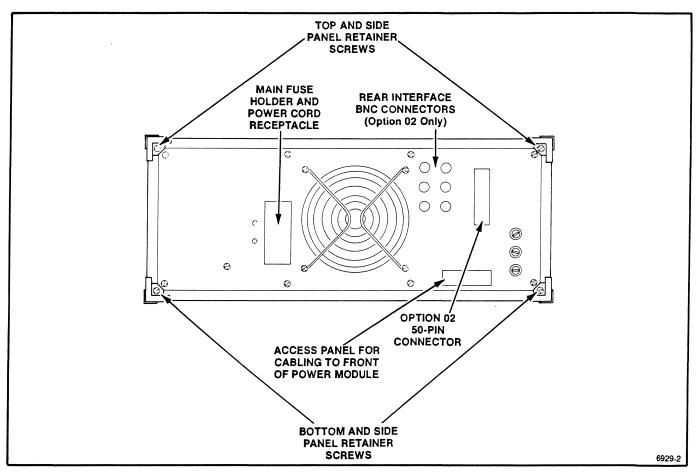


Fig. 2-3. TM 506A rear panel.

If the rack has positive internal pressure for cooling purposes, the mainframes must have all compartments filled with plug-ins or blank front panels (available from Tektronix, Inc.) must be installed in the unused plug-in openings. If greater internal air flow is desired in a relatively highly pressurized rack, the grill opening at the bottom front of the TM 506A may also be blocked.

**Rack Dimensions.** The TM 506A, Option 10, is shipped from the factory ready for rack mounting. Figure 2-4 shows major dimensions. Figure 2-5 shows the spring-latch cutout in the stationary section.

#### NOTE

The slide tracks supplied with the TM 506A, Option 10, have holes in the stationary sections to accomodate the spring latches. The TM 506A, Option 10, should not be mounted with rack slides that do not have the rack-latch holes.

The TM 506A, Option 10, fits a standard 19-inch side cabinet, rack or console. Spacing inside the front rails must be at least 17 3/4 inches. This allows clearance for the stationary section of the slide-out tracks to permit the assembly to slide freely on the slid-out tracks.

The slide-out tracks, with existing hardware supplied, will conveniently mount in any rack with the front and rear rails spaced from 10 1/2 inches to 24 1/2 inches.

**Mounting the Slide Tracks.** Locate the proper rack holes for mounting as shown in Fig. 2-6. Notice that the hole spacing in the racks varies. When installing the slides in the EIA type racks, make certain the slides are attached to the 1/2-inch spaced holes. Figure 2-6 also shows details for determining position of the slides in the rack. Mount the rails using enclosed hardware as shown in Fig. 2-7 and 2-8. Figures 2-8B and C show rail-mounting details for deep and shallow racks. Make sure the stationary sections are horizontally aligned so they are level and parallel with each other.

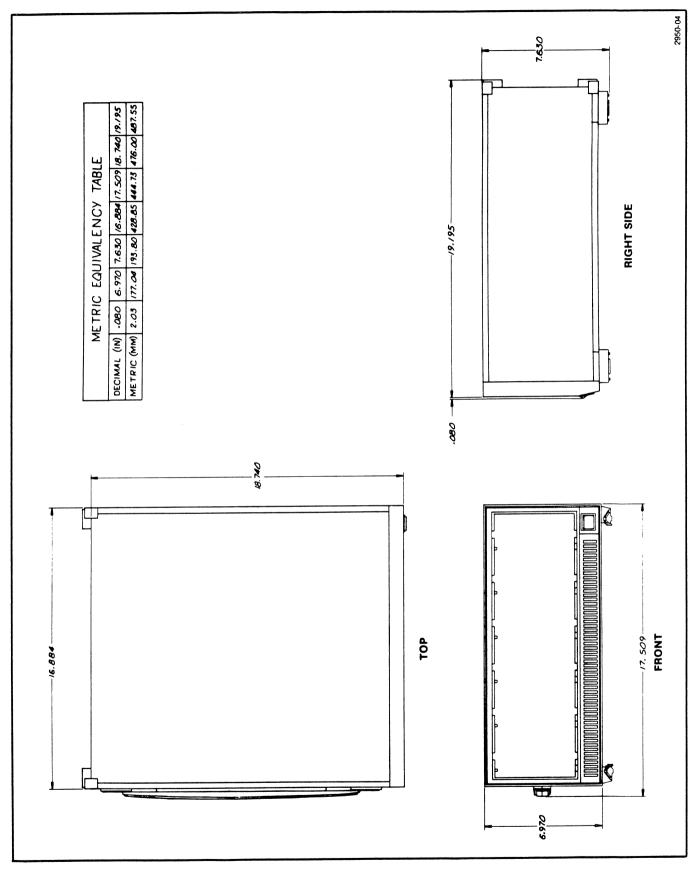


Fig. 2-4. TM 506A, overall dimensions.

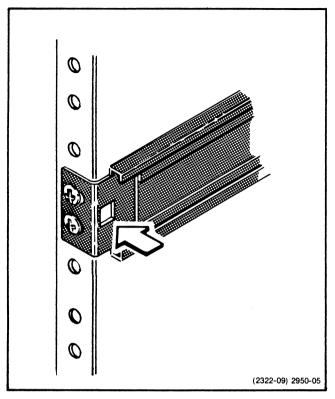


Fig. 2-5. Rack latch hole.

Installing the TM 506A, Option 10, in the Rack Slides. Make certain all plug-ins are removed from the power module. Pull the slide-out track intermediate sections out as far as they will go. See Fig. 2-9. Insert the instrument chassis sections into the intermediate section and push the instrument forward until the instrument chassis section locks into the intermediate section. Now press both buttons protruding from the stop-latch holes in the intermediate sections while pushing the instrument. The instrument can now be pushed into the rack, cabinet, or console. The latches holding the intermediate sections to the stationary sections are automatically operated by the instrument as it is pushed into the rack or cabinet. The quick-release latches automatically engage the rack-latch holes in the stationary sections of the rails as the instrument is pushed fully into the rack.

**Removing the Instrument.** Remove all plug-ins from power module. Unscrew the two thumb screws at the top of the front panel. Pull the rectangular latches on both sides of the front panel. Using the latches pull the instrument from the enclosure until the slide intermediate sections latch with the instrument sections and the stationary sections. The instrument is firmly held in this position. To completely remove the instrument, press both release-latch buttons visible in the stop-latch holes and carefully slide the instrument from the rack or cabinet. **Rack Adjustments.** After installing the instrument in the rack, binding in the rack slides may occur if the slides are not properly adjusted. Slide the instrument from the rack until the front panel is about 10 inches from the front of the rack. Slightly loosen the screws holding the right and left tracks to the front rails. Allow the tracks to seek their normal position. Retighten the screws and check the tracks for smooth operation by sliding the instrument in and out of the rack.

**Rack Slide Maintenance.** The slide-out tracks do not require lubrication. The dark gray finish on the tracks is a permanent lubricative coating.



During rackmount installation, interchanging the left and right slide-out track assemblies defeats the extension stop (safety latch) feature of the tracks. Equipment could, when extended, come out of the slides and fall from the rack, possibly causing personal injury and equipment damage.

When mounting the supplied slide-out tracks, inspect both assemblies to find the LH (left hand) and RH (right hand) designations to determine correct placement. Install the LH assembly to your left side as you face the front of the rack and install the RH assembly to your right side. Refer to the rackmounting instructions in this manual for complete information.

### **Plug-in Installation and Removal**



Turn the power module off before inserting or removing the plug-in; otherwise, damage may occur to the plug-in circuitry.

Check to see that the plastic barriers on the interconnecting jack of the selected power module compartment match the cutouts in the plug-in cirucit board edge connector. The right-most compartment is the high power compartment. Align the plug-in chassis with the upper and lower guides (see Fig. 2-10) of the selected compartment. Push the plug-in chassis in and press firmly to seat the circuit board edge connector in the interconnecting jack. Turn the power module on.

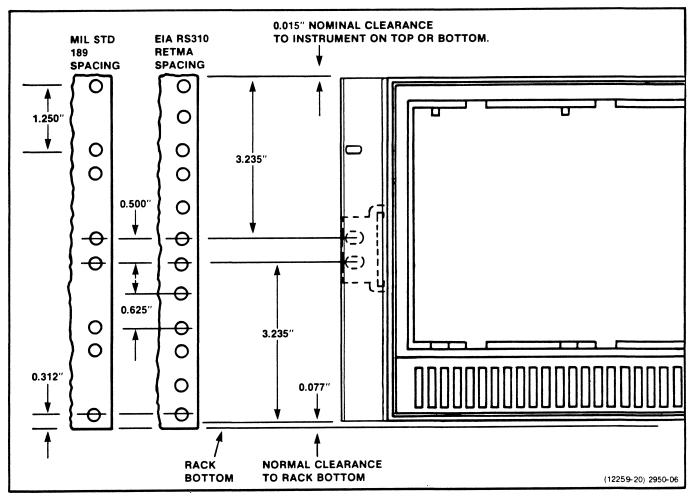


Fig. 2-6. Dimensions and positioning of TM 506A, Option 10, in standard rack.

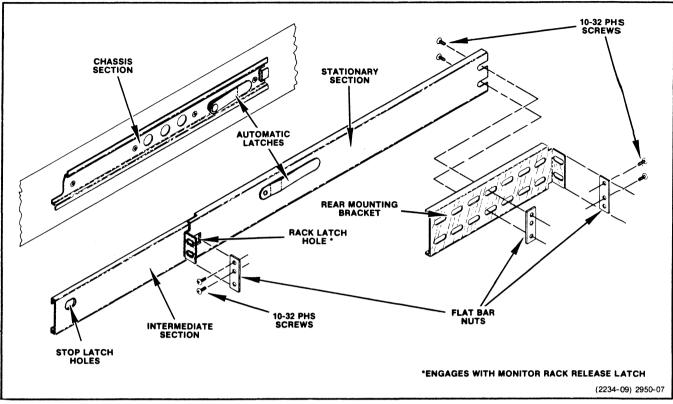


Fig. 2-7. Rackmount slide detail. If the rack has tapped holes, the bar nuts are not required.

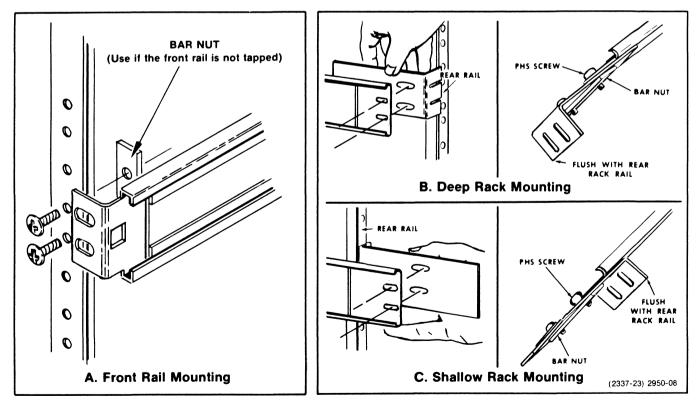


Fig. 2-8. Rackmounting slide details.

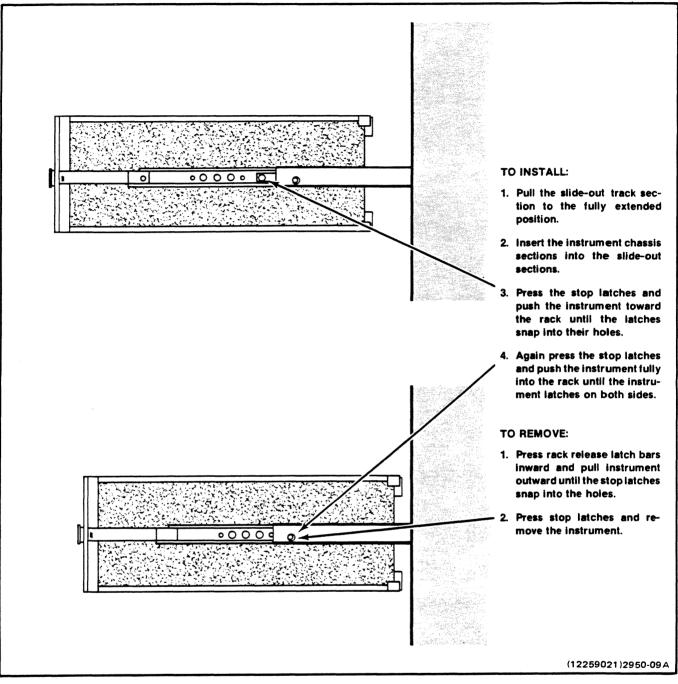


Fig. 2-9. Removing and installing TM 506A in rack slides.

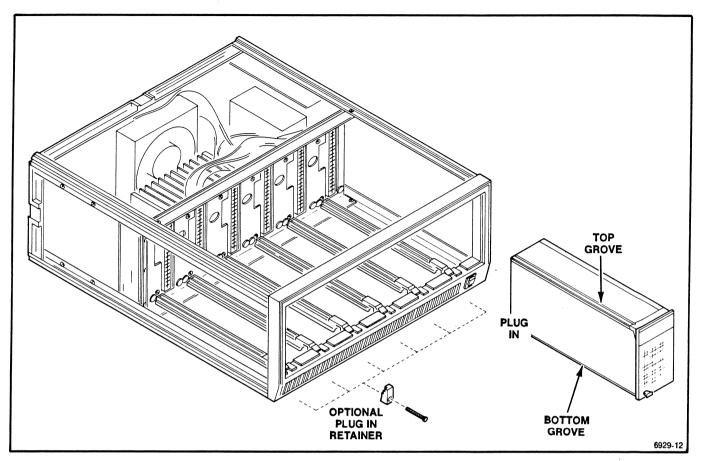


Fig. 2-10. Plug-in installation and removal.

### **Family Compatibility**

Mechanically, TM 500 plug-in modules are very similar to other Tektronix product families. However, they are not electrically compatible. Therefore, the TM 506A interface has barriers on the mating connectors between pins 6 and 7 to ensure that incompatible plug-ins cannot be inserted. See Fig. 2-11. A compatible module will have a matching slot between pins 6 and 7 of its main circuit board edge connector. This slot and barrier combination is the primary keying assignment.

# **Customizing the Interface**

The modularity of this instrumentation system provides for many different functions to be performed by the plug-in modules. Specific functions are grouped into families or classes, of which there may be several plug-in module members. For instance, some classes are Power Supplies, Signal Sources, Measurement, and so forth. Each modular member of a functional family will have a second slot peculiar to its family assignment, located in its edge connector. The TM 506A user can select one or more compartments to accept only members of that family, by installing a second barrier in the interface connector to match the module's slot

2-10

location. An entire TM 506A can be set up in this manner for specific work functions. For extra barriers, order Tektronix Part No. 214-1593-02.

Jumper wires can be used to further specialize the interface. Compartments can communicate with one another by connecting jumpers on the back side of the interface board, using pins 14 through 28 (both A-side and B-side) of the interconnecting jacks. See the following description of Option 02. Refer to each plug-in module manual for the I/O assignments of each pin at the rear interface. Once interconnections of a specialized nature are made, it is recommended that barriers be installed on the interconnecting jacks to ensure module compatibility with the customized wiring.

# **Rear Panel**

The rear panel has a connector mounting plate for bnc and multi-pin connector mountings. Customer or factory-installed connectors and wiring (Option 02) can provide external access to the interface. This feature makes the TM 500-Series Modular Instrumentation System very flexible in bench-top or rackmounted systems.

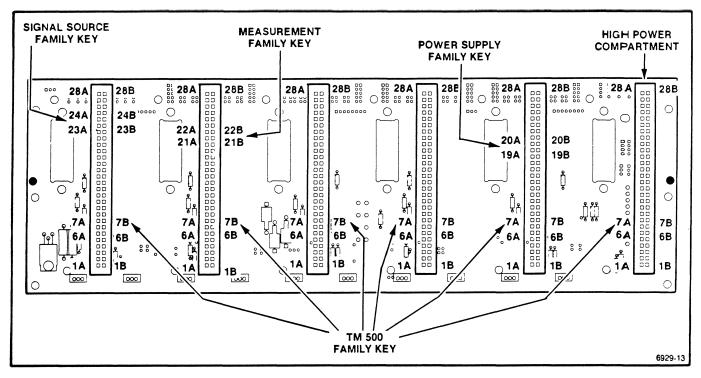


Fig. 2-11. Keying assignments for family functions. One of the many possible sequence combinations.

# **Option 02**

This option adds six BNC connectors and a 50-pin connector to the rear panel to allow external access to the interface for external I/O control. These connectors are not prewired. Instead, prepared jumpers, strip pins, coaxial cables, and interconnection jack barriers are included in a kit. This gives the system designer as much flexibility as possible. Refer qualified service personnel to the Maintenance section of this manual for Option 02 installation information.

#### **Plug-in Retainer Installation**

The retainer is used to ensure that an installed plug-in module cannot come out of the power module while it is being moved or transported. Note that plug-in modules cannot be removed or inserted with the retainer installed.

To install the retainer, stand the power module on end. Install the retainer as shown in Fig. 2-10. A T-20 Torx bit is required.

#### **Turn-On Procedure**

After completing the power module preparation and plug-in module installation instructions, install the power cord and connect to the proper power outlet. Some plug-ins have independent power switches, usually labeled OUT-PUT, that control application of mainframe power to the plug-in.

# **Repackaging Information**

If the Tektronix instrument is shipped to a Tektronix Service Center for service or repair, attach a tag showing owner (with address) and the name of an individual at your firm to contact. Include the complete instrument serial number, option number and a description of the service required.

Save and reuse the package in which your instrument was shipped. If the original packaging is unfit for use or not available, repackage the instrument as follows:

Surround the instrument with polyethylene sheeting to protect the instrument finish. Obtain a carton of corrugated cardboard of the correct carton strength having inside dimensions of no less than six inches more than the instrument dimensions. Cushion the instrument by tightly packing three inches of dunnage or urethane foam between carton and instrument on all sides. Seal the carton with shipping tape or an industrial stapler.

The carton test strength for this instrument is 350 pounds per square inch.

# WARNING

THE FOLLOWING SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED PERSONNEL ONLY. TO AVOID PERSONAL INJURY, DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO. REFER TO OPERATORS SAFETY SUMMARY AND SERVICE SAFETY SUMMARY PRIOR TO PERFORMING ANY SERVICE.

# MAINTENANCE

# Introduction

This section contains information on preventive maintenance and instrument disassembly.

## **Static Sensitive Components**

CAUTION

Static discharge can damage any semiconductor component in this instrument.

This instrument contains electrical components that are susceptible to damage from static discharge. See Table 3-1 for relative susceptibility of various classes of semiconductors. Static voltages of 1 kV to 30 kV are common in unprotected environments.

# Table 3-1 RELATIVE SUSCEPTIBILITY TO STATIC DISCHARGE DAMAGE

Semiconductor	Classes	Relative Susceptibility Levels <sup>a</sup>
MOS or CMOS microcircu		
discretes, or linear microc with MOS inputs.		1
ECL		2
Schottky signal diodes	3	
Schottky TTL	4	
High-frequency bipolar tra	· 5	
JFETs	6	
Linear microcircuits	7	
Low-power Schottky TTL	8	
TTL	(Least Sensitive)	9

Voltage equivalent for levels:

(Voltage discharged from a 100 pF capacitor through a resistance of 100  $\Omega.)$ 

# Cleaning

This instrument should be cleaned as often as operating conditions require. Loose dust accumulated on the outside of the instrument can be removed with a soft cloth or small brush. Remove dirt that remains with a soft cloth dampened in a mild detergent and water solution. Do not use abrasive cleaners.

Clean the interior by blowing off the accumulated dust with a dry, low-velocity air (approximately 5 lb/in<sup>2</sup>) or use a soft brush or cloth dampened with a mild detergent and water solution.



Circuit boards and components must be dry before applying power.

### **Multipin Connectors**

The pin connectors used to connect the wires to the interconnecting pins are clamped to the ends of the wires. To replace damaged multi-pin connectors, remove the old pin connector from the holder. Do this by inserting a scribe between the connector and the holder and prying the connector from the holder. Clamp the replacement connector to the wire. Reinstall the connector in the holder.

If the individual end lead pin connectors are removed from the plastic holder, note the order of the individual wires for correct replacement in the holder. For proper replacement see Fig. 3-1.

# **Instrument Disassembly**



Use caution when operating this instrument with the side panels removed as dangerous voltages are present.

To remove the top, bottom and side panels, remove the four screws attaching the feet to the rear of the instrument and slide the panels to the rear. See Fig. 3-2. To remove the

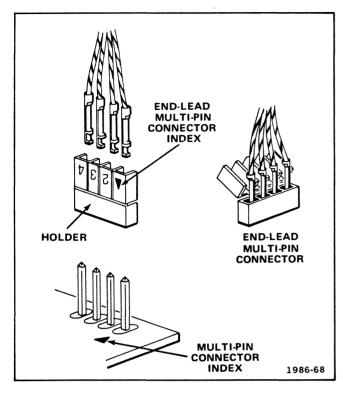


Fig. 3-1. Orientation and disassembly of multipin connectors.

interface circuit board, remove the plug-in guide rails shown in Fig. 3-3. Next remove the interface circuit board support by removing the screws shown in Fig. 3-4 and Fig. 3-6. Before removing the main interface circuit board, make certain the connections to the board are either unplugged or unsoldered. Remove the six screws holding the board to the mainframe, and the ten transistor mounting screws on the bottom side. To remove the rear panel, remove the screws shown in Fig. 3-5, and the nut that secures the dc power supply. After these screws are removed, the rear panel may be laid back for easier access to the dc power supply board. After removing the rear panel, the dc power supply circuit board may be removed. Remove the four screws and one nut shown in Fig. 3-6.



Dangerous voltages may be present on the filter capacitors on the dc power supply board for several minutes after line voltage removal.

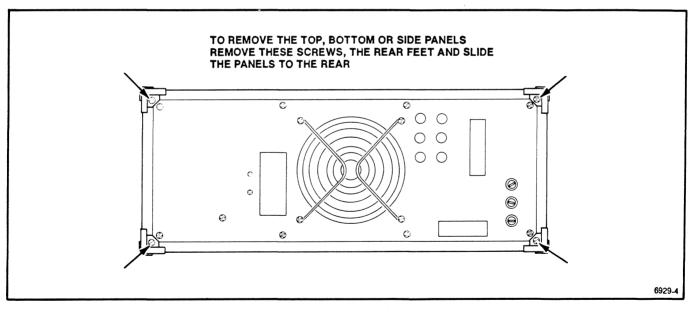


Fig. 3-2. Outer panel removal.

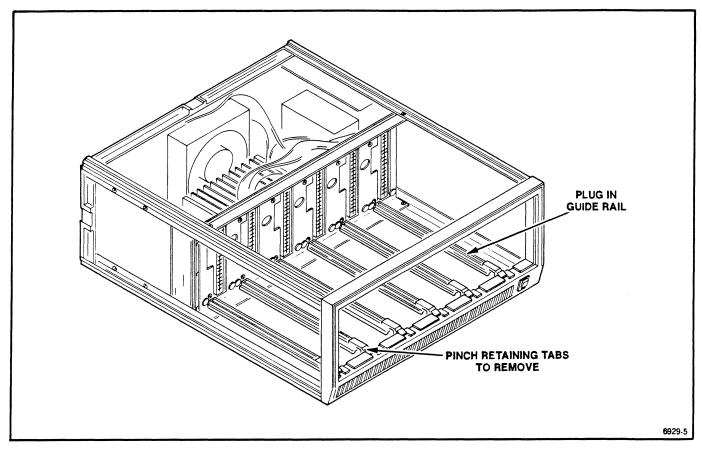


Fig. 3-3. Guide rail and air baffle removal.

To gain access to the bottom of the dc power supply board, remove the side panel next to the board.

To remove the heat sink:

- 1. Disconnect the TM 506A from the power source.
- 2. Disconnect the leads to the high-power series-pass transistors. (The transistors are shown in Fig. 3-7.)
- Remove the six screws that fasten the heat sink (Fig. 3-8) to the chassis, and lift the heat sink out of the unit.

To remove the transformer assembly:

- 1. Remove the heat sink.
- 2. Remove the rear panel.
- 3. Tag and disconnect all leads.
- 4. Remove the fastening screws shown in Fig. 3-9, then lift the transformer assembly out of the chassis.

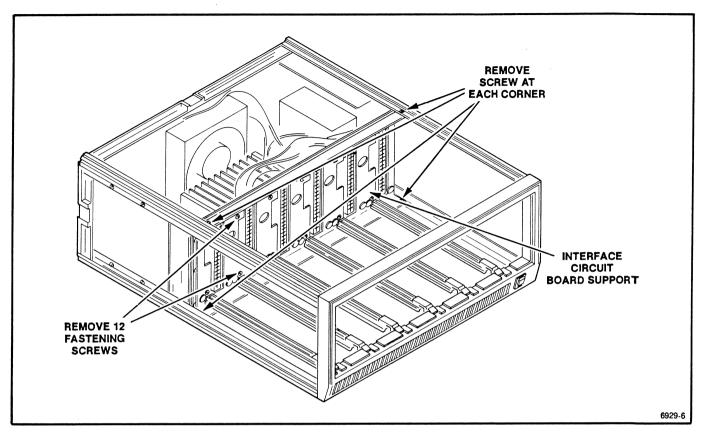


Fig. 3-4. Removal of the interface circuit board support.

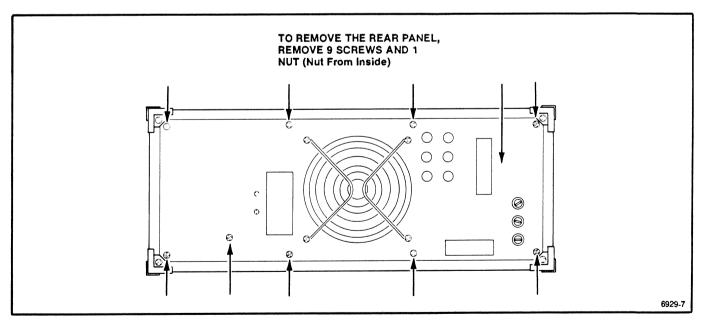


Fig. 3-5. Rear panel removal.

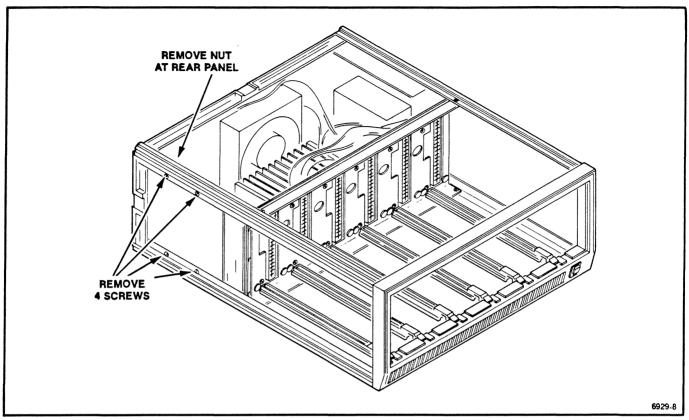


Fig. 3-6. Location of screws holding the dc power supply circuit board to the mainframe chassis.

# **Circuit Troubleshooting**

Troubleshooting the TM 506A is usually very simple. However, if a plug-in is defective, be sure that the problem is not in the TM 506A:

- 1. Check the power supply fuses. These are located at the rear panel.
- 2. If no fuses are blown, check the voltages in the TM 506A at the connector where the defective plug-in was used.
- 3. Turn off the power to the TM 506A and use an ohmmeter to test the series-pass transistor that drives the connector in question.

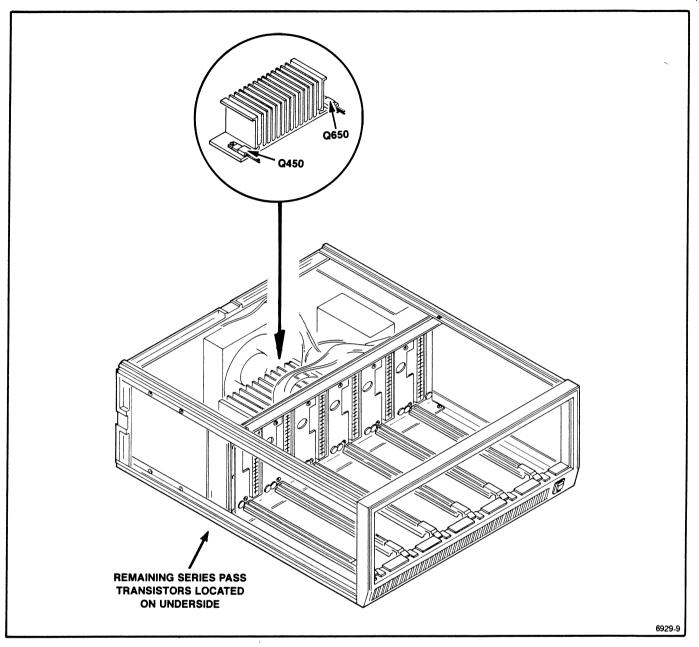


Fig. 3-7. Series pass transistor locations. The high power compartment series pass transistors Q450 and Q650 are on the right side of the heat sink. Q650 is the upper transistor.

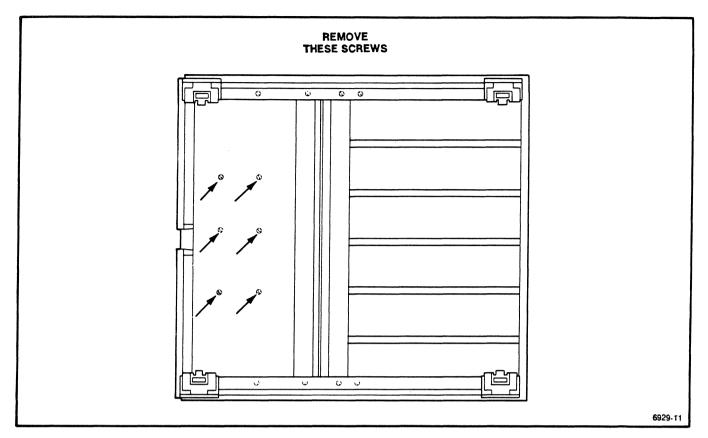


Fig. 3-8. Attaching screws on bottom of mainframe.

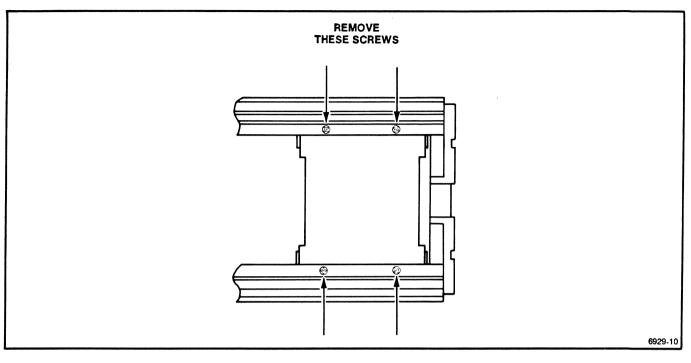


Fig. 3-9. Transformer assembly attaching screws.

# **OPTIONS**

## Introduction

Option 02 provides rear interface connections at the rear panel and Option 10 provides rack mounting capabilities. Information on Option 02 is found below. Information on Option 10 is provided in Section 2 of this manual, and at the end of the Replaceable Mechanical Parts List.

# **Option 02**

This option adds 25-mil square pin connectors to the rear of the interconnecting jacks at all pins from 14A and B to pins 28A and B. This option also adds six bnc connectors and one 50-pin connector to the rear panel. These connectors are not prewired. Prepared jumpers, coaxial cables, square pins, and interconnection jack barriers are included in the kit.

# **System Design Directions**

1. Plan the plug-in location in the mainframe based on operator convenience as well as interface connections.

2. Plan the wiring between interconnecting jacks and to the rear panel connectors before starting assembly. A mating rear panel 50-pin connector and cover are provided for external cabling.

#### NOTE

There are no pin assignments for the rear panel connectors, due to the great variety of possible connections.

When high frequency or fast digital signals are involved, plan the wiring to minimize crosstalk. Make allowance for possible auxiliary ground connections.

The 50-pin rear panel connector may be easier to connect if it is removed from the rear panel and remounted after connections are made. Remove the top rear cabinet piece for ease of access.

If more than 50 pins are needed, an AMP HD-22 series connector with 104 pins may be mounted in the same cut out. It is suggested that these parts be obtained directly from AMP Inc., Harrisburg, PA or their distributors. For further application information, contact Tektronix TM 500 Marketing Group. 3. Pin assignments for individual plug-ins will be found in the appropriate instruction manual.

4. Install an interconnection jack barrier at the appropriate location on the interconnection jack. Refer to operating instructions for keying assignments for family functions.

5. Select and install the wires (hook-up or coaxial cable) following the guidelines in the Wire Use part of these instructions.

6. Wires or cables which may be at large potential differences should be dressed or bundled so as to avoid contact. Keep all interface wiring away from the power module primary line wiring.



Maximum input voltage is  $\leq 60$  Vdc or  $\leq 42.4$  Vdc peak-to-peak. Limit input power to  $\leq 150$  W total for Option 02.

### Wire Use

1. Hook up wire with square pin receptacles on both ends. These may be used for low frequency or dc circuits where impedance levels and crosstalk are not a problem. The wire is supplied for connection between compartments (adjacent or nonadjacent) or between a compartment and the rear panel. For connection to the rear panel, cut to length then tin and solder the end going to the rear panel connector.

2. Coaxial wire with square pin receptacles on both ends. These are used for connections which require shielding or which must maintain a 50  $\Omega$  characteristic impedance. The outer conductor should be connected to either chassis ground or circuit ground. Plug-in lines which require coaxial leads usually have a specified ground pin assignment. If necessary, establish auxiliary ground connections at the appropriate wire ends. The coaxial wire is supplied for connection between compartments (adjacent or nonadjacent) or between a compartment and the rear panel. For connection to the rear panel, cut to length then tin and solder the end going to the rear panel connector.

# 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

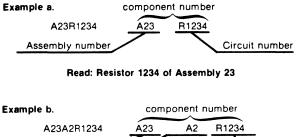
The Mfr. Code Number to Manufacturer index for the Electrical Parts List is located immediately after this page. The Cross Index provides codes, names and addresses of manufacturers of components listed in the Electrical Parts List.

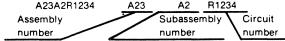
#### ABBREVIATIONS

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 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
00213	NYTRONICS COMPONENTS GROUP INC SUBSIDIARY OF NYTRONICS INC	ORANGE ST	DARLINGTON SC 29532
01121	ALLEN-BRADLEY CO	1201 SOUTH 2ND ST	MILWAUKEE WI 53204-2410
03508	GENERAL ELECTRIC CO	W GENESEE ST	AUBURN NY 13021
	SEMI-CONDUCTOR PRODUCTS DEPT		
04222	AVX CERAMICS DIV OF AVX CORP	19TH AVE SOUTH	MYRTLE BEACH SC 29577
		P 0 BOX 867	
04713	MOTOROLA INC	5005 E MCDOWELL RD	PHOENIX AZ 85008-4229
05000	SEMICONDUCTOR PRODUCTS SECTOR	COO M ROUN CT	HICKOUTHER NY 11802
05828	GENERAL INSTRUMENT CORP GOVERNMENT SYSTEMS DIV	600 W JOHN ST	HICKSVILLE NY 11802
19701	MEPCO/CENTRALAB	P 0 BOX 760	MINERAL WELLS TX 76067-0760
13701	A NORTH AMERICAN PHILIPS CO	1 0 800 700	MINERAL WELES IN 70007 0700
22526	DU PONT E I DE NEMOURS AND CO INC	515 FISHING CREEK RD	NEW CUMBERLAND PA 17070-3007
	DU PONT CONNECTOR SYSTEMS		
	DIV MILITARY PRODUCTS GROUP		
27264	MOLEX INC	2222 WELLINGTON COURT	LISLE IL 60532-1613
31781	EDAC INC	20 RAILSIDE RD	ONT M3A 1A4 CAN
57000		DON MILLS	
57668		16931 MILLIKEN AVE	IRVINE CA 92713
71400	BUSSMANN DIV OF COOPER INDUSTRIES INC	114 OLD STATE RD PO BOX 14460	ST LOUIS MO 63178
80009	TEKTRONIX INC	14150 SW KARL BRAUM DR	BEAVERTON OR 97077
00003	TERMONIX INC	PO BOX 500 MS 53-111	DERVERTOR OR SYST
81483	INTERNATIONAL RECTIFIER	9220 SUNSET BLVD	LOS ANGELES CA 90069-3501
01,00		P O BOX 2321 TERMINAL ANNEX	
82877	ROTRON INC	7 HASBROUCK LN	WOODSTOCK NY 12498-1807
	CUSTOM DIV		
93410	ESSEX GROUP ING	45-55 PLYMOUTH ST	LEXINGTON OH 44904
	CONTROLS DIV	P 0 BOX 1007	
THOODE	LEXINGTON PLANT	OT AL DANK OT	017ENOUTA NY 1000E 1010
TK0935	MARQUARDT SWITCHES INC	67 ALBANY ST	CAZENOVIA NY 13035-1219
		PO BOX 465	

Component No.	Tektronix Part No.	Serial/Assembly No. Effective Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A10	671-0621-00		CIRCUIT BD ASSY:MAIN INTERFACE	80009	671-0621-00
A11	671-0622-00		CIRCUIT BD ASSY: POWER SUPPLY	80009	671-0622-00
A10	671-0621-00		CIRCUIT BD ASSY:MAIN INTERFACE	80009	671-0621-00
A10C2011	281-0774-00		CAP, FXD, CER DI:0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C2013	281-0774-00		CAP, FXD, CER DI:0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C2014	281-0774-00		CAP, FXD, CER DI: 0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C2019 A10C2021	281-0774-00 281-0774-00		CAP,FXD,CER DI:0.022MFD,20%,100V CAP,FXD,CER DI:0.022MFD,20%,100V	04222 04222	MA201E223MAA MA201E223MAA
A10C2023	281-0774-00		CAP, FXD, CER DI: 0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C2037	281-0774-00		CAP, FXD, CER DI: 0.022MFD, 20%, 100V	04222 04222	MA201E223MAA. MA201E223MAA.
A10C2038 A10C2041	281-0774-00 281-0774-00		CAP,FXD,CER DI:0.022MFD,20%,100V CAP,FXD,CER DI:0.022MFD,20%,100V	04222	MA201E223MAA
A10C2041 A10C2043	281-0774-00		CAP, FXD, CER DI:0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C2044	281-0774-00		CAP, FXD, CER DI:0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C2051	281-0774-00		CAP, FXD, CER DI:0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C2053	281-0774-00		CAP, FXD, CER DI:0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C2055	281-0774-00		CAP, FXD, CER DI:0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C2064	281-0774-00		CAP, FXD, CER DI:0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C2065	281-0774-00		CAP, FXD, CER DI:0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C2070	281-0774-00		CAP,FXD,CER DI:0.022MFD,20%,100V	04222	MA201E223MAA
A10C2073	281-0774-00		CAP,FXD,CER DI:0.022MFD,20%,100V	04222	MA201E223MAA
A10C2074	281-0774-00		CAP, FXD, CER DI:0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C2075	281-0774-00		CAP, FXD, CER DI: 0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C3016	281-0774-00		CAP, FXD, CER DI: 0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C3017	281-0774-00		CAP, FXD, CER DI: 0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C3021	281-0774-00		CAP,FXD,CER DI:0.022MFD,20%,100V	04222	MA201E223MAA
A10C3022	281-0774-00		CAP, FXD, CER DI:0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C3043	281-0774-00		CAP, FXD, CER DI: 0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C3044	281-0774-00		CAP, FXD, CER DI: 0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C3053 A10C3055	281-0774-00 281-0774-00		CAP,FXD,CER DI:0.022MFD,20%,100V CAP,FXD,CER DI:0.022MFD,20%,100V	04222 04222	MA201E223MAA MA201E223MAA
A10C3055 A10C3067	281-0774-00		CAP, FXD, CER DI:0.022MFD, 20%, 100V CAP, FXD, CER DI:0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C3068	281-0774-00		CAP, FXD, CER DI: 0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C3075	281-0774-00		CAP, FXD, CER DI: 0.022MFD, 20%, 100V	04222	MA201E223MAA
A10C3076	281-0774-00		CAP, FXD, CER DI: 0.022MFD, 20%, 100V	04222	MA201E223MAA
A10CR2034	152-0198-00		SEMICOND DVC, DI:RECT, SI, 200V, 3A, A249	03508	1N5624
A10CR3037	152-0198-00		SEMICOND DVC, DI:RECT, SI, 200V, 3A, A249	03508	1N5624
A10CR3038	152-0198-00		SEMICOND DVC, DI: RECT, SI, 200V, 3A, A249	03508	1N5624
A10J1005	131-0608-00		TERMINAL,PIN:0.365 L X 0.025 BRZ GLD PL (QUANTITY OF 3)	22526	48283-036
A10J1025	131-0608-00		TERMINAL, PIN: 0.365 L X 0.025 BRZ GLD PL	22526	48283-036
A10J1045	131-0608-00		(QUANTITY OF 10) TERMINAL,PIN:0.365 L X 0.025 BRZ GLD PL	22526	48283-036
A10J1065	131-0608-00		(QUANTITY OF 8) TERMINAL,PIN:0.365 L X 0.025 BRZ GLD PL	22526	48283-036
A10J1070	131-0608-00		(QUANTITY OF 3) TERMINAL,PIN:0.365 L X 0.025 BRZ GLD PL	22526	48283-036
A10J2041	131-2427-01		(QUANTITY OF 8) TERM,QIK DISC.:TAB	80009	131-2427-01
A10J2043	131-2427-01		TERM, QIK DISC. : TAB	80009	131-2427-01
A10J2045	131-2427-01		TERM,QIK DISC.:TAB	80009	131-2427-01 131-2427-01
A10J2047	131-2427-01		TERM,QIK DISC.:TAB TERM SET,PIN:6 CONTACT,MALE	80009 27264	09-61-1061
A10J2079 A10J3015	131-2576-00 131-1078-00		CONN, RCPT, ELEC:CKT BD, 28/56 CONTACT	31781	303-056-520-301
A10J3015 A10J3025	131-1078-00		CONN, RCPT, ELEC:CKT BD, 20/30 CONTACT CONN, RCPT, ELEC:CKT BD, 28/56 CONTACT	31781	303-056-520-301
				01701	202 050 500 001
A10J3040	131-1078-00		CONN, RCPT, ELEC:CKT BD, 28/56 CONTACT	31781	303-056-520-301
A10J3065	131-1078-00		CONN, RCPT, ELEC: CKT BD, 28/56 CONTACT	31781	303-056-520-301

# Replaceable Electrical Parts - TM 506A

Component No.	Tektronix Part No.	Serial/Assemb Effective	ly No. Dscont	Name & Description	Mfr. Code	Mfr. Part No.
A10J3080	131-1078-00			CONN, RCPT, ELEC: CKT BD, 28/56 CONTACT	31781	303-056-520-301
A1003005	151-0462-00			TRANSISTOR: PNP, SI, TO-220	04713	SJE491
A10R2047	315-0100-00			RES, FXD, FILM: 10 OHM, 5%, 0.25W	19701	5043CX10RR00J
				RES, FXD, W: 30 OHM, 5%, 3W	00213	1240S-30-5
A10R3010	308-0142-00					
A10R3011	308-0740-00			RES, FXD, WW: 20 OHM, 1%, 3W	00213	1200S-20-1
A10R3012	315-0332-00			RES,FXD,FILM:3.3K OHM,5%,0.25W	57668	NTR25J-E03K3
A11	671-0622-00			CIRCUIT BD ASSY: POWER SUPPLY	80009	671-0622-00
A11C2041	290-1186-00			CAP, FXD, ELCTLT: 4700UF, 20%, 50WVDC	80009	290-1186-00
A11C2055	290-1186-00			CAP, FXD, ELCTLT: 4700UF, 20%, 50WDC	80009	290-1186-00
				CAP, FXD, ELCTLT: 18000UF, 20%, 16WDC	80009	290-1187-00
A11C3025	290-1187-00					
A11C3041	290-1186-00			CAP, FXD, ELCTLT: 4700UF, 20%, 50WVDC	80009	290-1186-00
A11C3055	290-1186-00			CAP, FXD, ELCTLT: 4700UF, 20%, 50WVDC	80009	290-1186-00
A11C4041	290-1187-00			CAP, FXD, ELCTLT: 18000UF, 20%, 16WDC	80009	290-1187-00
A11C4055	290-1187-00			CAP, FXD, ELCTLT: 18000UF, 20%, 16WVDC	80009	290-1187-00
A11CR3011	152-0668-00			SEMICOND DVC, DI:RECT BRIDGE, SI. 200V, 6A	05828	KBPC802
						28CP0040
A11CR4005	152-0793-00			SEMICOND DVC, DI: DUAL RECT, SI, 40V, 25A	81483	
A11F1005	159-0126-00			FUSE, CARTRIDGE: 3AG, 2.5A, 250V, 0.65SEC	71400	AGC-CW-2 1/2
A11F2005	159-0126-00			FUSE, CARTRIDGE: 3AG, 2.5A, 250V, 0.65SEC	71400	AGC-CW-2 1/2
A11F3005	159-0242-00			FUSE, CARTRIDGE: 3AG, 10A, 32V, VERY FAST	71400	AGC-CW-10
A11J5005	131-2427-01			TERM, OIK DISC. : TAB	80009	131-2427-01
A11J5011	131-2427-01			TERM, QIK DISC. : TAB	80009	131-2427-01
				TERM, OIK DISC. : TAB	80009	131-2427-01
A11J5015	131-2427-01					
A11J5021	131-2427-01			TERM, QIK DISC. : TAB	80009	131-2427-01
A11J5025	131-2427-01			TERM, QIK DISC. : TAB	<b>8000</b> 9	131-2427-01
A11J5031	131-2427-01			TERM.OIK DISC.: TAB	80009	131-2427-01
A11J5041	131-2427-01			TERM, QIK DISC. : TAB	80009	131-2427-01
A11J5045	131-2427-01			TERM, QIK DISC. : TAB	80009	131-2427-01
				TERM, QIK DISC. : TAB	80009	131-2427-01
A11J5051	131-2427-01					
A11J5055	131-2427-01			TERM, QIK DISC. : TAB	80009	131-2427-01
A11R1025	305-0102-00			RES, FXD, CMPSN: 1K OHM, 5%, 2W	01121	HB1025
A11R3025	305-0102-00			RES, FXD, CMPSN: 1K OHM, 5%, 2W	01121	HB1025
A11R3031	303-0511-00			RES, FXD, CMPSN: 510 OHM, 5%, 1W	01121	GB5115
B500	119-0721-00			FAN, VENTILATING: 75CFM, 115VAC, 50/60HZ	82877	WR2H1
				(STANDARD ONLY)		
B500	119-0147-00			FAN, VENTILATING:115V, 14W, 3200RPM, 105CFM (OPTION 10 AND OPTION 12 ONLY)	82877	028021
F500	1 <del>59-00</del> 27-00			FUSE,CARTRIDGE:3AG,4A,250V,30SEC,CER	71400	MDX 4
FL500	119-3212-00			SELECTOR, LINE V: W/LINE FILTER, RCPT & FUHLR	80009	119-3212-00
Q450	151-0652-00			TRANSISTOR: NPN, SI, X-86	04713	TIP35C
Q650	151-0651-00			TRANSISTOR: PNP, SI, X-86	04713	TIP36C
Q3011	151-0918-00	B010100 B0	11072	TRANSISTOR:PNP POWER, 15A, 80V	80009	151-0918-00
					04713	MJF2955
Q3011	151-0938-00	B011073		TRANSISTOR: PNP POWER, 10A, 90V		
Q3017	151-0917-00	B010100 B0	11072	TRANSISTOR:NPN POWER, 15A, 80V	80009	151-0917-00
Q3017	151-0937-00	B011073		TRANSISTOR:NPN POWER,10A,90V	04713	MJF3055
Q3025	151-0918-00	B010100 B0	11072	TRANSISTOR: PNP POWER, 15A, 80V	80009	151-0918-00
Q3025		B011073		TRANSISTOR: PNP POWER, 10A, 90V	04713	MJF2955
Q3029	151-0917-00	-	11072	TRANSISTOR:NPN POWER,15A,80V	80009	151-0917-00
Q3029	151 <b>09</b> 3700	B011073		TRANSISTOR:NPN POWER,10A,90V	04713	MJF3055
Q3036	151091800	B010100 B0	11072	TRANSISTOR: PNP POWER, 15A, 80V	80009	151-0918-00
Q3036	151-0938-00	B011073		TRANSISTOR: PNP POWER, 10A, 90V	04713	MJF2955
Q3039			11072	TRANSISTOR:NPN POWER, 15A, 80V	80009	151-0917-00
Q3039	151-0917-00 151-0937-00	B010100 B0 B011073	11072	TRANSISTOR:NPN POWER, 154,800	04713	MJF3055
Q3051	151 <b>09</b> 1800	B010100 B0	11072	TRANSISTOR: PNP POWER, 15A, 80V	80009	151-0918-00
Q3051	151-0938-00	B011073		TRANSISTOR: PNP POWER, 10A, 90V	04713	MJF2955
Q3057	151-0917-00		11072	TRANSISTOR:NPN POWER,15A,80V	80009	151-0917-00
					04713	MJF3055
Q3057	151-0937-00	B011073		TRANSISTOR:NPN POWER,10A,90V	07/10	

<u>Component No.</u>	Tektronix Part No.	Serial/Ass Effective	•	Name & Description	Mfr. Code	Mfr. Part No.
Q3067	151-0918-00	B010100	B011072	TRANSISTOR: PNP POWER, 15A, 80V	80009	151-0918-00
Q3067	151-0938-00			TRANSISTOR: PNP POWER, 10A, 90V	04713	MJF2955
Q3070	151-0917-00		B011072	TRANSISTOR:NPN POWER.15A.80V	80009	151-0917-00
Q3070	151-0937-00			TRANSISTOR:NPN POWER,10A,90V	04713	MJF3055
SW500	260-1961-00			SWITCH, ROCKER: DPST, 6(4)A, 250V	TK0935	1802.1121
SW600	260-0907-00			SWITCH, THRMSTC: NC, OPEN 97.8, CL 75.6, 10A	93410	430-349
500	120-1810-00			TRANSFORMER, PWR: 48-66HZ, 100, 120, 220, 240V	80009	120-1810-00
/110	196-3219-00			LEAD, ELECTRICAL: 18 AWG, 12.0 L, 2-1	80009	196-3219-00
				(FROM A11J5051 TO A10J2041)		
120	196-3216-00			LEAD,ELECTRICAL:12 AWG,12.0 L,O-N (FROM A11J5055 TO A10J2045)	80009	196-3216-00
/130	196-3217-00			LEAD,ELECTRICAL:12 AWG,12.0 L,2-N (FROM A11J5041 TO A10J2047)	80009	196-3217-00
<b>v</b> 140	196-3218-00			LEAD, ELECTRICAL:18 AWG, 12.0 L,7-1 (FROM A11J5045 TO A10J2043)	80009	196-3218-00
1200	174-1267-00			CA ASSY, SP, ELEC: 6, 22 AWG, 30.0 L (FROM A10J2079 TO TRANSISTORS ON HEATSINK)	80009	174-1267-00
<b>v</b> 300	174-1287-00			CA ASSY, SP, ELEC: 4, 18 AWG, 8-N, 24.0 L (FROM S500 TO FL500 AND SW600)	80009	174-1287-00
<b>J</b> 310	196-3221-00			LEAD, ELECTRICAL:18 AWG, 13.5 L, 8-7 (FROM SW600 TO FL500)	80009	196-3221-00
<b>4</b> 400	196-3220-00			LEAD,ELECTRICAL:18 AWG,2.5 L,5-4 (FROM GND LUG TO FL500)	80009	196-3220-00

# **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:

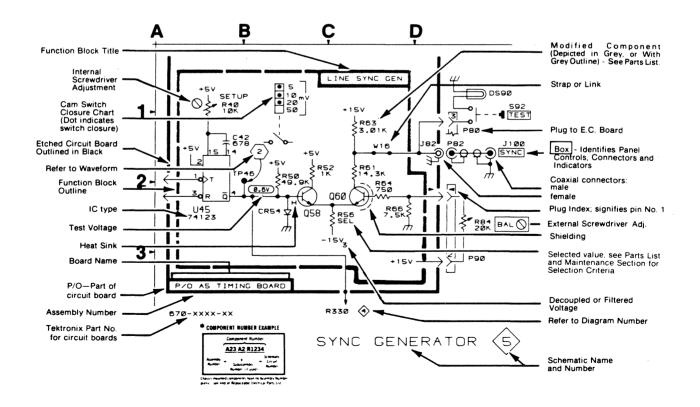
Y14.15, 1966	Drafting Practices.							
Y14.2, 1973	Line Conventions and Lettering.							
Y10.5, 1968	Letter Symbols for Quantities Used in							
	Electrical Science and Electrical Engineering.							
American National Standard Institute 1430 Broadway New York, New York 10018								
Component V	/alues							
	omponents shown on the diagrams are in inits unless noted otherwise:							

Capacitors = Values one or greater are in picofarads (pF). Values less than one are in microfarads  $(\mu F)$ . Resistors = Ohms ( $\Omega$ ).

#### 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). The schematic diagram and circuit board component location illustration have grids. A lookup table with the grid coordinates is provided for ease of locating the component. Only the components illustrated on the facing diagram are listed in the lookup table. When more than one schematic diagram is used to illustrate the circuitry on a circuit board, the circuit board illustration may only appear opposite the first diagram on which it was illustrated; the lookup table will list the diagram number of other diagrams that the circuitry of the circuit board appears on.



*ti* 



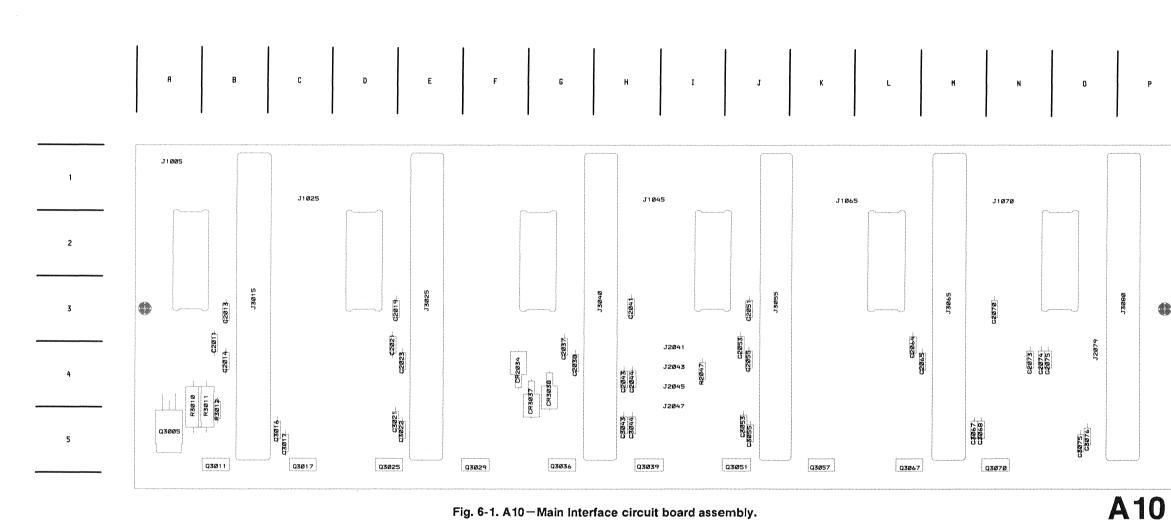
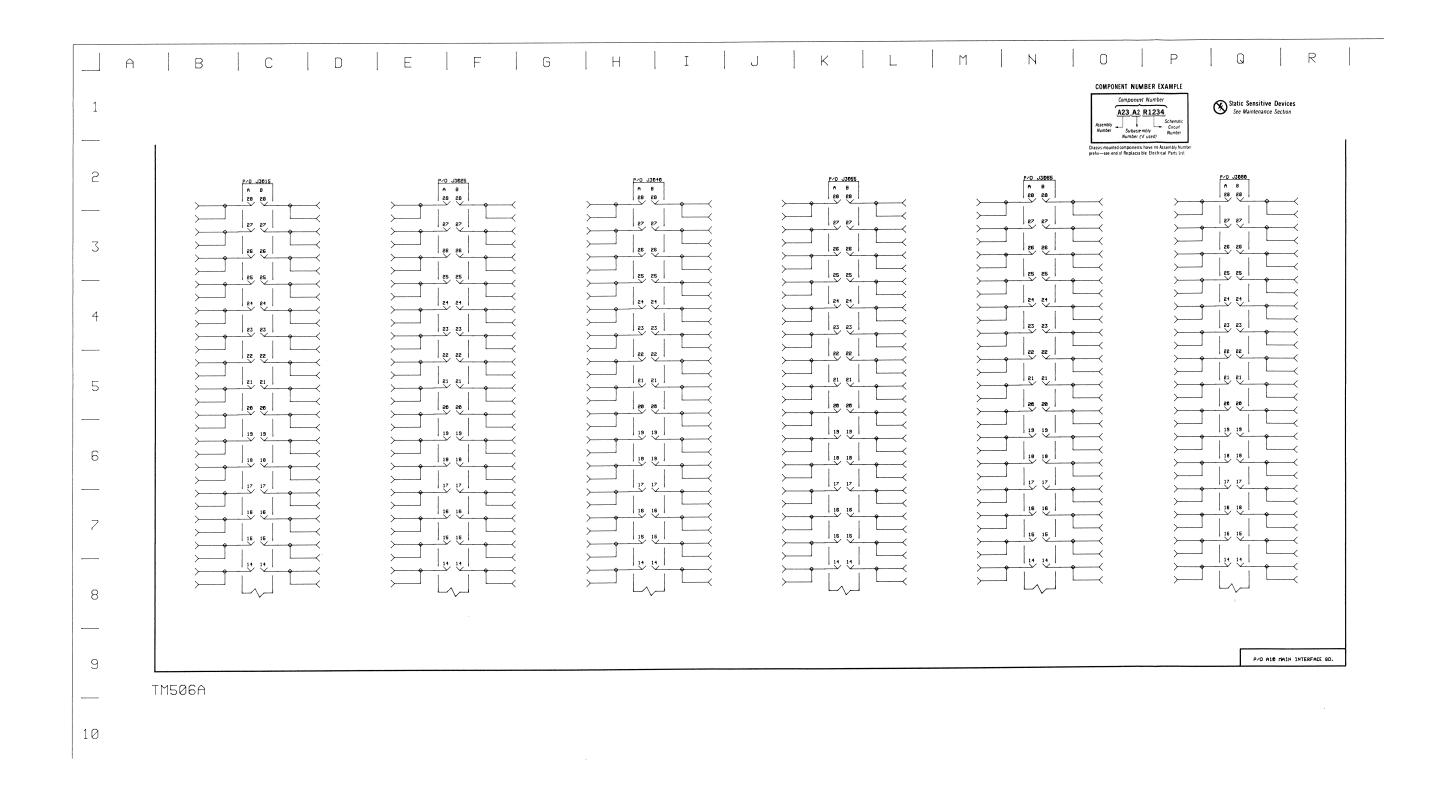


Fig. 6-1. A10-Main Interface circuit board assembly.

	Table 0-1									
MAIN INTERFACE BD., ASSEMBLY A10										
CIRCUIT NUMBER	SCHEMATIC LOCATION	BOARD LOCATION								
J3015 J3025 J3040 J3055 J3065 J3080	C2 F2 H2 K2 N2 Q2	B3 E3 H3 J3 M3 P3								

Table 6-1

A10 also shown on Diagram 2



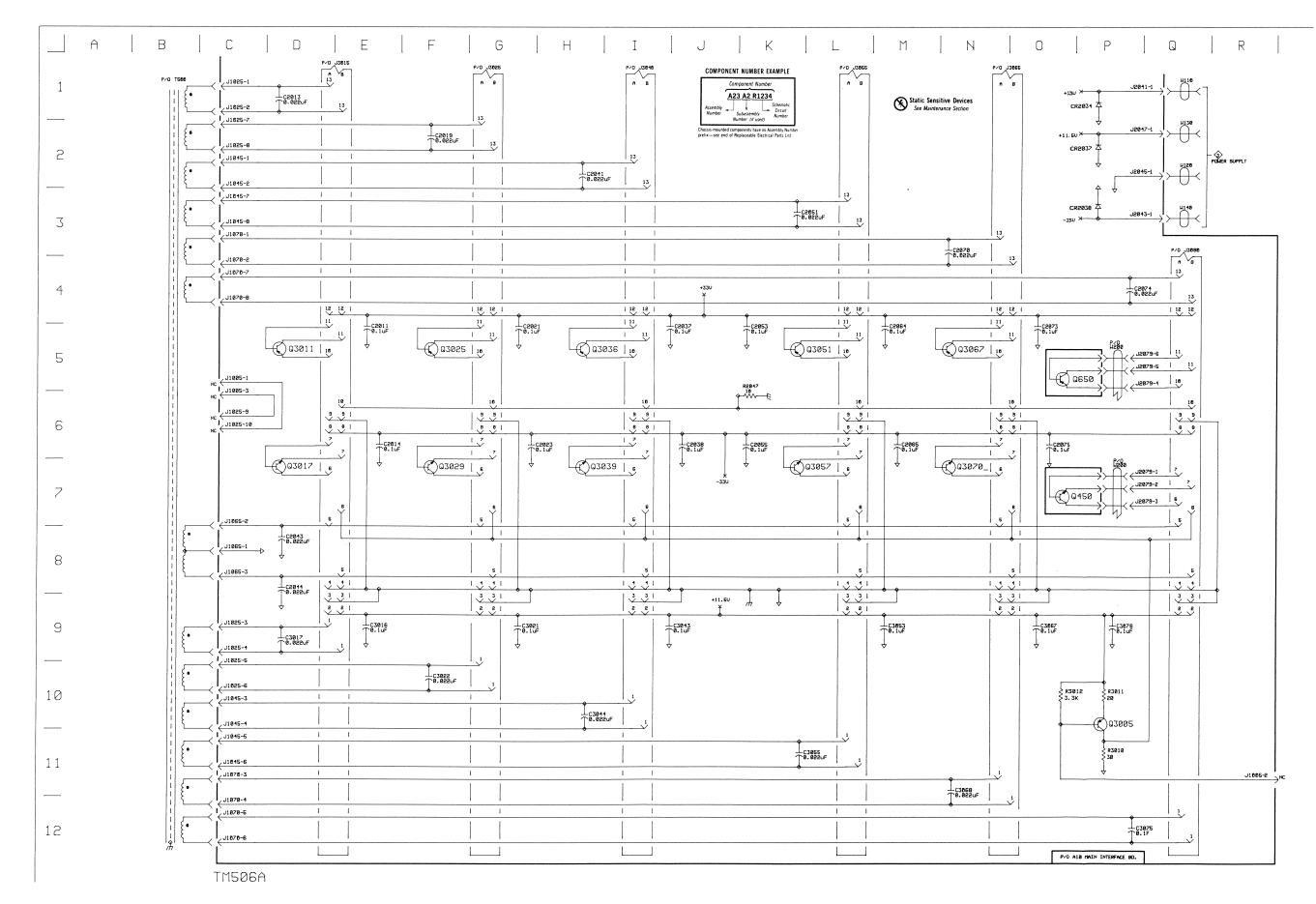


TM 506A

	SCHEMATIC LOCATION	BOARD LOCATION	CIRCUIT NUMBER	SCHEMATIC LOCATION	BOARD LOCATION
C2011 C2013 C2014 C2019 C2021 C2023 C2037 C2038 C2041 C2043 C2044 C2043 C2044 C2051 C2053 C2055 C2064	E5 D162565 J625835665 D88356655 M52	B4 B3 D4 E4 G4 H3 H4 H4 J3 J4 J4 J4	J1065 J1070 J2041 J2043 J2043 J2043 J2045 J2079 J2079 J3015 J3025 J3040 J3055 J3065 J3065 J3080	C8 C3 C11 Q1 Q2 Q3 Q2 P5 P7 D1 G1 L1 L1 N1 Q4	K1 N1 I4 I4 I4 I4 I4 I4 S3 E3 H3 J3 M3 P3
C2065 C2070 C2073 C2074 C2075 C3016 C3017 C3021 C3022 C3043 C3044 C3053 C3055 C3067 C3068	M6 N3 O5 P6 E9 D9 G9 G9 F10 J9 H10 M9 K11 O9 N11	L4 N3 N4 N4 N5 C5 D5 E5 55 S5 S5 S5 M5	Q3005 Q3011 Q3025 Q3029 Q3036 Q3039 Q3051 Q3057 Q3057 Q3070 Q540 Q650	P10 D5 D7 F5 F7 H5 H7 K5 K7 N5 N7 O7 O5	A5 B5 C5 F5 G5 H5 J5 K5 L5 N5 (CHASSIS) (CHASSIS)
C3075 C3076 CR2034	P12 P9 P1	05 05 F4	R2047 R3010 R3011 R3012	K6 P11 P10 O10	14 A4 B4 B5
CR2037 CR2038	P2 P3	G4 G4	Т500	B1	(CHASSIS)
J1005 J1005 J1025 J1025 J1025 J1045 J1045 J1045	C5 R11 C1 C6 C9 C2 C10	A1 C1 C1 H1 H1	W110 W120 W130 W140 W200 W200	Q1 Q2 Q3 P5 P7	(CHASSIS) (CHASSIS) (CHASSIS) (CHASSIS) (CHASSIS) (CHASSIS) (CHASSIS)

Table 6-2MAIN INTERFACE $\bigcirc$ MAIN INTERFACE BD.,ASSEMBLY A10

A10 also shown on Diagram 1



TM 506A

MAIN INTERFACE



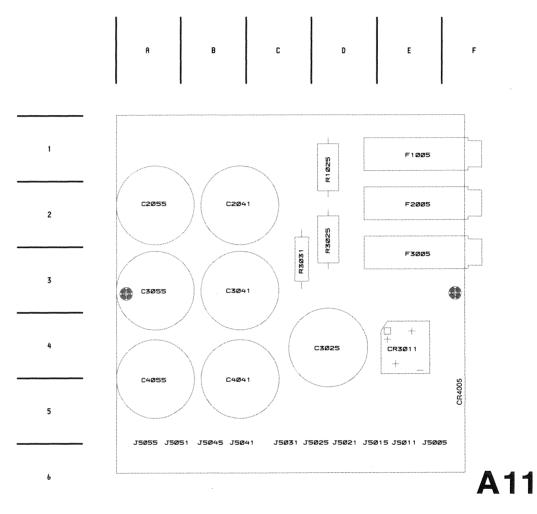
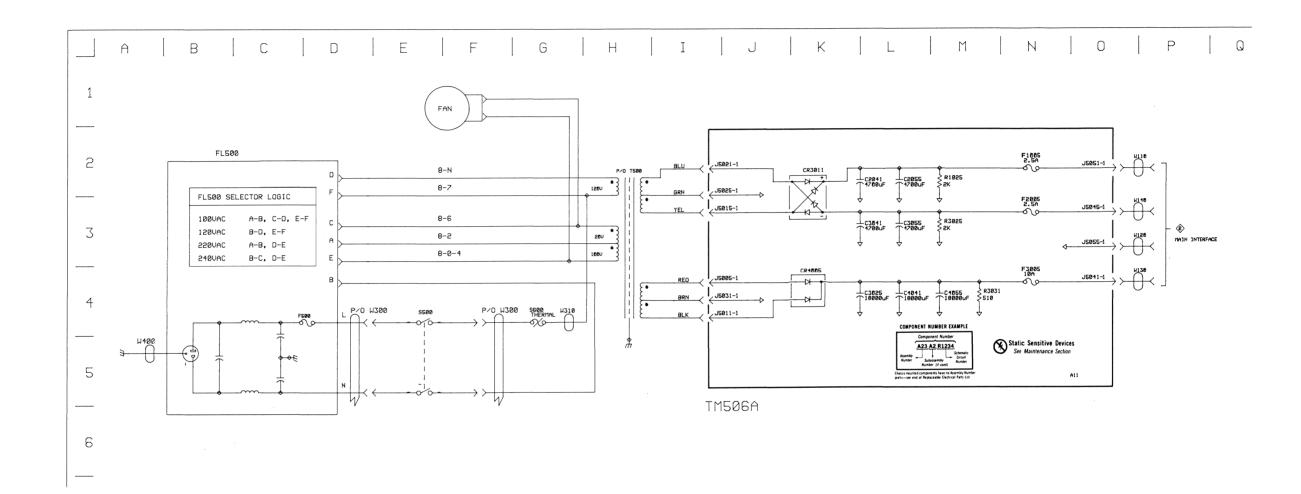


Fig. 6-2. A11-Power Supply circuit board assembly.

	SCHEMATIC	BOARD	CIRCUIT NUMBER	SCHEMATIC LOCATION	BOARD
C2041	L2	B2	J5031	J4	C5
C2055	L2	A2	J5041	04	B5
C3025	L4	D4	J5045	O3	B5
C3041	L3	B3	J5051	02	A5
C3055	L3	A3	J5055	O3	A5
C4041	L4	B5			
C4055	M4	A5	R1025	M2	D1
			R3025	M3	D2
CR3011	K2	E4	R3031	M4	C3
CR4005	K4	F5			
			S500	E4	(CHASSI
F1005	N2	E1	S600	G4	(CHASSI
F2005	N3	E2			•
F3005	N4	E3	T500	H2	(CHASSI
FAN	E2	(CHASSIS)	W110	02	(CHASSI
		· /	W120	O3	CHASSI
FL500	B2	(CHASSIS)	W130	O4	CHASS
		. /	W140	Ô3	(CHASSI
J5005	J4	E5	W300	D4	(CHASSI
J5011	J4	E5	W300	F4	CHASSI
J5015	J3	D5	W310	G4	CHASSI
J5021	J2	D5	W400	A5	CHASSI
J5025	J2	Č5			(=========





# 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.

#### **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.

#### 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

END ATTACHING PARTS

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

END ATTACHING PARTS

Parts of Detail Part Attaching parts for Parts of Detail Part

END ATTACHING PARTS

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.

Attaching parts must be purchased separately, unless otherwise specified.

#### ABBREVIATIONS

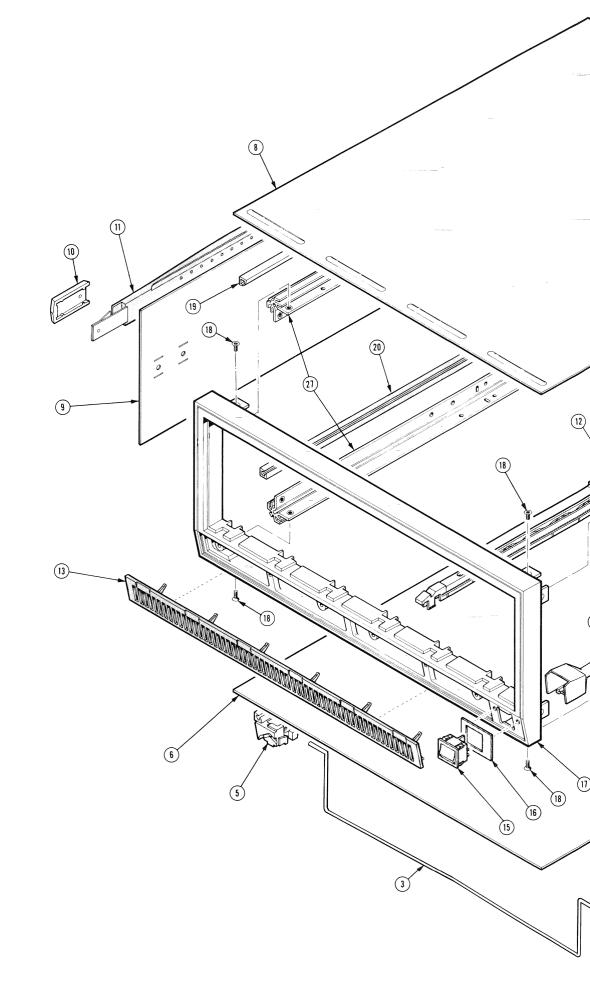
Abbreviations conform to American National Standards Institute YI.I

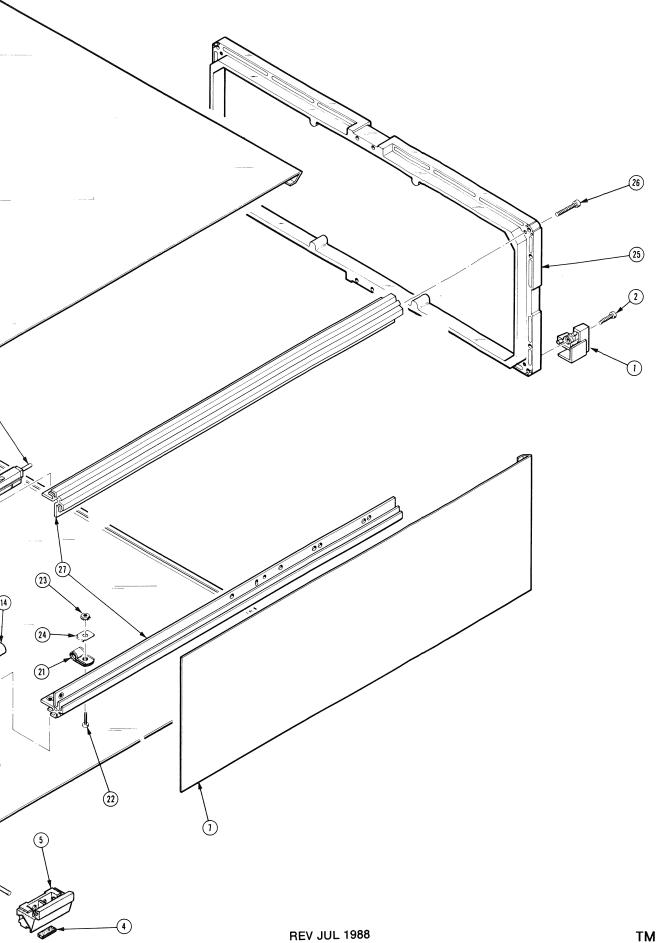
# CROSS INDEX - MFR. CODE NUMBER TO MANUFACTURER

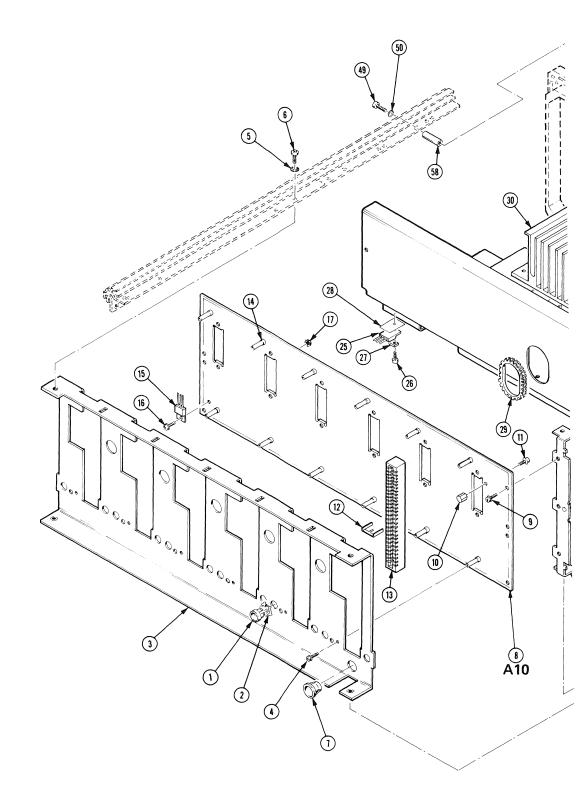
Mfr.			
Code	Manufacturer	Address	City, State, Zip Code
06666	GENERAL DEVICES CO INC	1410 S POST RD PO BOX 39100	INDIANAPOLIS IN 46239-9632
06915	RICHCO PLASTIC CO	5825 N TRIPP AVE	CHICAGO IL 60646-6013
11897	RICHCO PLASTIC CO PLASTIGLIDE MFG CORP FREEWAY CORP	2701 W EL SEGUNDO BLVD	HAWTHORNE CA 90250-3318
12327	FREEWAY CORP	9301 ALLEN DR	CLEVELAND OH 44125-4632
13511	AMPHENOL CADRE DIV BUNKER RAMO CORP		LOS GATOS CA
16428	COOPER BELDEN ELECTRONIC WIRE AND CA SUB OF COOPER INDUSTRIES INC	NW N ST	RICHMOND IN 47374
70903	COOPER BELDEN ELECTRONICS WIRE AND C SUB OF COOPER INDUSTRIES INC	2000 S BATAVIA AVE	GENEVA IL 60134-3325
71400	BUSSMANN	114 OLD STATE RD	ST LOUIS MO 63178
	DIV OF COOPER INDUSTRIES INC	PO BOX 14460	
71468	ITT CANNON	10550 TALBERT AVE	FOUNTAIN VALLEY CA 92728-8040
	DIV OF ITT CORP	PO BOX 8040	
72228	AMCA INTERNATIONAL CORP CONTINENTAL SCREW CO DIV	459 MT PLEASANT	NEW BEDFORD MA 02742
77900	SHAKEPROOF	SAINT CHARLES RD	ELGIN IL 60120
	DIV OF ILLINOIS TOOL WORKS		
78189	ILLINOIS TOOL WORKS INC SHAKEPROOF DIV	ST CHARLES ROAD	ELGIN IL 60120
80009	TEKTRONIX INC	14150 SW KARL BRAUM DR PO BOX 500 MS 53-111	BEAVERTON OR 97077
81041	HOWARD INDUSTRIES DIV OF MSL INDUSTRIES INC	1 NORTH DIXIE HWY PO BOX 287	MILFORD IL 60953
83309	ELECTRICAL SPECIALITY CO SUBSIDIARY OF BELDEN CORP	345 SWIFT AVE	SOUTH SAN FRANCISCO CA 94080-6206
83385	MICRODOT MFG INC	3221 W BIG BEAVER RD	TROY MI 48098
00000	GREER-CENTRAL DIV	SZZI W DIG DERVER RD	
83486	ELCO INDUSTRIES INC	1101 SAMUELSON RD	ROCKFORD IL 61101
86928	SEASTROM MFG CO INC	701 SONORA AVE	GLENDALE CA 91201-2431
93907	TEXTRON INC CAMCAR DIV	600 18TH AVE	ROCKFORD IL 61101
95987	WECKESSER CO INC	4444 WEST IRVING PARK RD	CHICAGO IL 60641
S31 <b>0</b> 9	FELLER	ASA ADOLF AG STOTZWEID CH8810	HORGEN SWITZERLAND
S3629	schurter ag h C/O panel components corp	2015 SECOND STREET	BERKELEY CA 94170
TK0435	LEWIS SCREW CO	4300 S RACINE AVE	CHICAGO IL 60609-3320
TK0508	NORTHWEST SPRING AND MFG CO	5858 WILLOW LANE	LAKE OSWEGO OR 97034-5343
TK0858	STAUFFER SUPPLY CO	105 SE TAYLOR	PORTLAND OR 97214
TK1373	PATELEC-CEM (ITALY)	10156 TORINO	VAICENTALLO 62/45S ITALY
TK1569	GERHART TOOL AND DIE	1116 W ISABEL ST	BURBANK CA 91506

Fig. &	<b>-</b>	0.14	-17. 4-			Mfr.	
Index No.	Tektronix Part No.	Serial/Asser Effective		Qty	12345 Name & Description	Code	Mfr. Part No.
1-1	348-0544-00			4	RTNR, CAB. COVER: CORNER, TEK BLUE, PC ATTACHING PARTS	<b>8000</b> 9	348-0544-00
-2	213-0782-00			4	SCREW, TPG, TF:8-32 X 0.625, FILH, STL END ATTACHING PARTS	<b>8348</b> 6	ORDER BY DESCR
-3	348-0201-00			1	FLIP-STAND.CAB.: 2.875 H.SST	TK0508	(ADVISE)
-4	348-0776-00			4	PAD, CAB, FOOT : POLYURETHANE	<b>8000</b> 9	348-0776-00
-5	348-0617-00			4	FOOT, CABINET: BOT, TEK BLUE, POLYCARBONATE	<b>800</b> 09	348-0617-00
-6	390-1044-00			1	CABINET, BOTTOM: FULL RACK X 17.956, ALUMINUM	<b>800</b> 09	390-1044-00
-7	390-1040-00			1	CABINET, SIDE:7 X 17.956, ALUMINUM	<b>800</b> 09	390-1040-00
-8	390-1043-00			ī	CABINET. TOP: FULL RACK X 17.956, ALUMINUM	<b>800</b> 09	390-1043-00
-9	390-1042-00			1	CABINET.SIDE:7 X 17.956.W/HANDLE RTNR	<b>80</b> 009	390-1042-00
-10	200-2191-00			2	CAP. RETAINER : PLASTIC	<b>8000</b> 9	200-2191-00
-11	367-0248-01			ī	HANDLE.CARRYING: 16.341 L.W/CLIP	80009	367-0248-01
-12	351-0619-00			6	GUIDE, PL-IN UNI: BOTTOM	80009	351-0619-00
-13	378-2044-01			1	GRILLE, AIR: INTAKE, TEK BLUE	80009	378-2044-01
-14	200-2576-00			ī	COVER, SWITCH:	80009	200-2576-00
-15				ī	SWITCH, ROCKER: (SEE SW500 REPL)		
-16	200-2565-01			i	COVER.SWITCH: FRONT.TEK BLUE, PC	80009	200-2565-01
-17	426-1706-03			1	FR SECT, PL-IN: FINISHED ATTACHING PARTS		426-1706-03
-18	211-0502-00			8	SCREW, MACHINE: 6-32 X 0.188, FLH, 100 DEG, STL END ATTACHING PARTS	TK0435	ORDER BY DESCR
-19	124-0380-00			2	STRIP, TRIM: CORNER, TOP, BLUE, 17.41 L	<b>800</b> 09	124-0380-00
-20	124-0381-00			2	STRIP, TRIM: CORNER, BOT, BLUE, 13.91 L	<b>80</b> 009	124-0381-00
-21	<b>343-00</b> 03-00			2	CLAMP,LOOP:0.25 ID,PLASTIC ATTACHING PARTS		E4 CLEAR ROUND
-22	211-0578-00			2	SCREW, MACHINE: 6-32 X 0.438, PNH, STL	TK0435	ORDER BY DESCR
-23	210-0457-00			2	NUT, PL, ASSEM WA: 6-32 X 0.312, STL CD PL	<b>78</b> 189	511-061800-00
-24	210-0863-00			2	WSHR, LOOP CLAMP: 0.187 ID U/W 0.5 W CLP END ATTACHING PARTS	<b>959</b> 87	C191
-25	<b>4</b> 26-1480-01			1	FRAME, CABINET: REAR, 7.0 X FULL RACK ATTACHING PARTS		426-1480-01
-26	<b>213-0</b> 863-00			4	SCREW, TPG, TR:8-32 X 1.375, TAPTITE, FILH, STL END ATTACHING PARTS	<b>9</b> 3907	ORDER BY DESCR
-27	<b>4</b> 26-2278-00			4	FRAME, SECT: ALUMINUM	<b>800</b> 09	426-2278-00

.







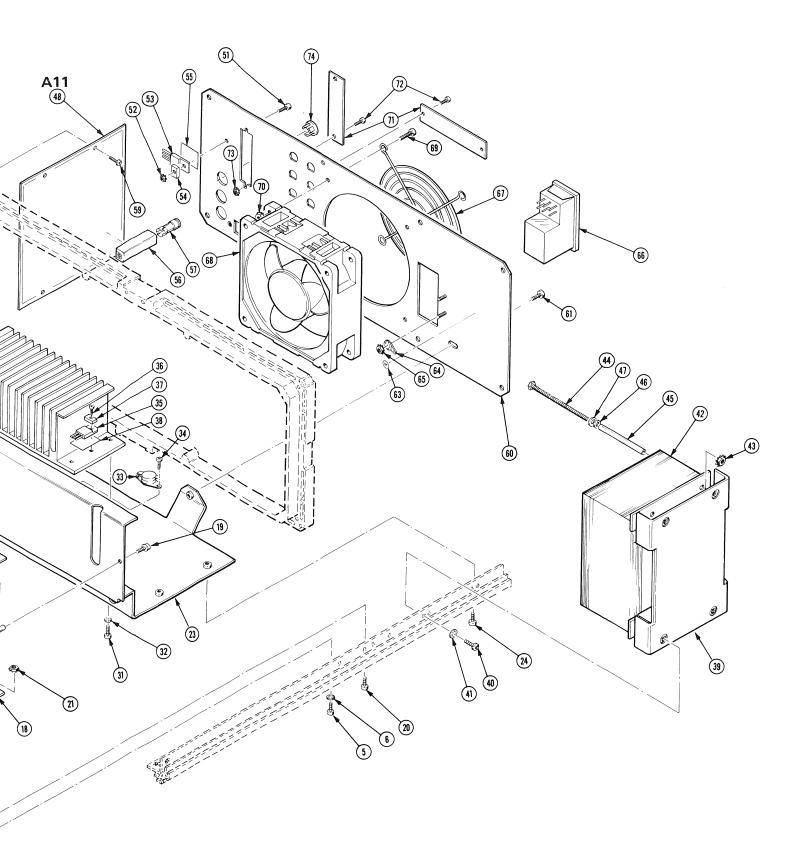


Fig. &						
Index	Tektronix	Serial/Assembly No.			Mfr.	
No.	Part No.	Effective Decont	Qty	12345 Name & Description	Code	Mfr. Part No.
2-1	348-0640-00		12	GROMMET, PLASTIC: BLACK, ROUND, 0. 188 ID		
-2 -3	214-3026-00 386-5773-00		12 1	SPRING, GROUND: CU BE SUPPORT, CKT BD: ALUMINUM		
-3	300-3773-00		*	ATTACHING PARTS		
-4	211-0244-00		12	SCR, ASSEM WSHR: 4-40 X 0.312, PNH STL		
-5	212-0023-00		4	SCREW, MACHINE: 8-32 X 0.375, PNH, STL		
-6	210 <b>-000</b> 8-00		4	WASHER, LOCK:#8 INTL, 0.02 THK, STL END ATTACHING PARTS		
-7	342-0313-00		2	GROMMET, PLASTIC: 0.437 ID X 0.562 OD, NYLON		
-8			1	CKT BD ASSY: MAIN INTCON (SEE A10 REPL)		
<u>^</u>	211 0244 00		6	ATTACHING PARTS		
-9	211-0244-00		D	SCR, ASSEM WSHR: 4-40 X 0.312, PNH STL END ATTACHING PARTS		
				.CKT BD ASSY INCLUDES:		
-10	361-1084-00		1	.SPACER, ACTUATOR: 0.33 L X 0.25 DIA, PLASTIC		
• •	211 0244 00		,	ATTACHING PARTS		
-11	211-0244-00		1	.SCR, ASSEM WSHR: 4-40 X 0.312, PNH STL END ATTACHING PARTS		
-12	214-1593-02		6	.KEY, CONN PLZN:CKT BOARD CONN		
-13			6	.CONNECTOR, RCPT: (SEE A10,1000, J1100, J1200		
-14	129-0814-00		12	.J1300,J1400,J1500 REPL) .SPACER.POST:0.622L,4-40 INT,BRS,0.2880D		
-14	129-0014-00		12	.TRANSISTOR: (SEE A1001525 REPL)		
				ATTACHING PARTS		
-16	211-0244-00		1	SCR, ASSEM WSHR: 4-40 X 0.312, PNH STL		
-17	210-0586-00		1	.NUT, PL, ASSEM WA: 4-40 X 0.25, STL CD PL END ATTACHING PARTS		
-18	386-4350-00		2	SUPPORT, CKT BD: INTERFACE, AL		
				ATTACHING PARTS		
-19	211-0244-00		8 4	SCR,ASSEM WSHR:4-40 X 0.312,PNH STL SCREW,MACHINE:6-32 X 0.375,PNH,STL		
-20 -21	211-0510-00 210-0457-00		4	NUT.PL.ASSEM WA:6-32 X 0.312,STL CD PL		
			•	ATTACHING PARTS		
••						
-23	337-3503-00		1	SHIELD, ELEC: ALUMINUM ATTACHING PARTS		
-24	211-0513-00		4	SCREW, MACHINE: 6-32 X 0.625, PNH, STL		
				END ATTACHING PARTS		
-25			6	TRANSISTOR: (SEE Q3011,3017,3025,3029,3036, Q3039,3051,3057,3067,3070		
-26	211-0012-00		10	SCREW.MACHINE: 4-40 X 0.375. PNH. STL		
-27	342-0860-00		10	INSULATOR, XSTR: POLYSULFONE, BLACK OR NATURAL		
-28	<b>342-08</b> 31-00		10	INSULATOR, PLATE: TRANSISTOR TO-220		
-29	255-0334-00		1	END ATTACHING PARTS PLASTIC CHANNEL:12.75 X 0.175 X 0.155,NYLON		
-30	214-4126-00		1	HEAT SINK: GOLD IRRIDITE		
				ATTACHING PARTS		
-31	211-0510-00		6	SCREW, MACHINE: 6-32 X 0.375, PNH, STL		
-32	210-0006-00	)	6	WASHER, LOCK: #6, INTL, 0.01B THK, STL END ATTACHING PARTS		
<b>-3</b> 3			1	SWITCH, THERMAL: (SEE SW600 REPL)		
			-	ATTACHING PARTS		
-34	211-0504-00		2	SCREW, MACHINE: 6-32 X 0.250, PNH, STL END ATTACHING PARTS		
-35			2	TRANSISTOR: (SEE Q450,650 REPL)		
			-	ATTACHING PARTS		
-36	211-0012-00		2	SCREW, MACHINE: 4-40 X 0.375, PNH, STL INSULATOR, XSTR: POLYSULFONE, BLACK OR NATURAL		
-37 -38	342-0860-00 342-0863-00		2	INSULATOR, TRANSISTOR		
	572 0000 W		•	END ATTACHING PARTS		
-39	<b>38</b> 6-5772-00		1	SUPPORT, XFHR: ALLMINUM, ASSEMBLED		
. 40	<b>212-00</b> 23-00		4	ATTACHING PARTS SCREW, MACHINE: 8-32 X 0.375, PNH, STL		
-40 -41	212-0023-00		4	WASHER, LOCK: #8 INTL, 0:02 THK, STL		
10			-	END ATTACHING PARTS		
-42			1	TRANSFORMER: (SEE T500 REPL) ATTACHING PARTS		
-43	220-0410-00		4	NUT.PL.ASSEM WA:10-32 X 0.375 HEX, STL CD PL		
			-			

Fig. 8         Index         Serial/Assembly No.         Mfr.         Code         Mfr.           2-44         212-0511-00         4         SCREW MOCHINE:10-32 X 3.0 MEX H0.51L         Code         Mfr. Part No.           2-44         212-0511-00         4         SCREW MOCHINE:10-32 X 3.0 MEX H0.51L         Code         Mfr. Part No.           45         210-0505-00         4         MSNUE SUVO, ELEC:0.19 ID X 7.25 L. MYLAR         MSNUE SUVO, ELEC:0.19 ID X 7.25 L. MYLAR           46         210-0505-00         4         MSHER, FLAT:0.204 ID X 0.438 DO X 0.32; STL         DA 458 DE X0.375 DO X 0.31           47         210-0505-00         4         MSHER, FLAT:0.204 ID X 0.438 DO X 0.32; STL         DA 458 DE X0.375 PMH, STL           48         210-0506-00         4         MSHER, FLAT:0.204 ID X 0.438 DO X 0.32; STL         DA 458 DE X0.375 PMH, STL           51         211-0510-00         0         4         MSHER NOX:48 DI X0.375 PMH, STL         DA 458 DE X0.375 PMH, STL           52         210-0586-D0         1         NUTPL_ASSEM.WA:4X40 X 0.25; STL, CD PL         DA 587 DE X0.035; PMH, STL           53         342-0863-00         1         NULLOR XST: PMUSUENE ELECK OR NURUAL           54         342-0863-00         1         NSULATOR, TRANSISTOR         DA 710 DE X0.05; PML, STL	<b>5</b> 2. <b>A</b>							
No.         Part No.         Effective         Decort         Oty         1234         Name & Description         Code         Mfr. Part No.           2-44         212-0511-00         4         SCREW, MACHINE:10-32 X 3.0 HEX H0,STL	•	Tektronix	Secial/Assem	blv.No.			Mfr.	
2-44         212-0511-00         4         SCREW.MACHINE:10-32 X 3:0 HEX HD,STL           -45         216-0512-00         4         INSUL SUKG-ELEC.0.19 ID X 2:25 LUVLAR           -47         210-0825-00         4         MSHER,F.AT::0.260 ID X 0:355 DO X 0:032,STL           -48					Qty	12345 Name & Description		Mfr. Part No.
-46       210-0812-00       4       HKUL SLVG.FLEE: 0. 19 ID X 2/25 LIVLAR         -47       210-0805-00       4       MSHER, FLAT: 0. 28 ID X 0. 375 (D X 0. 032, STL         -47       210-0805-00       4       MSHER, FLAT: 0. 28 ID X 0. 037, STL         -48	2-44	212-0511-00			4			
-46       210-0612-00       4       WSHER, FLAT-0. Table 1D, XL 0.375 00 XL 0.31         -47       210-0605-00       4       WSHER, FLAT-0.20 HD, XL 0.438 00 XL 0.32, STL         -48								
-47       210-0805-00       4       WASHER, FLAT: 0. 204 ID X 0.438 00 X 0.032, STL         -48        1       DCT BD ASS: PORE SUPPLYSEE ALL REPL)         -49       211-0510-00       4       SCREW, MACHINE; 6-32 X 0.375, PMH, STL         -50       210-0006-00       4       WSHER, LOCK: #0 INTL, 0.02 THK, STL         -51       211-0012-00       1       SCREW, MACHINE;40 X 0.375, PMH, STL         -52       210-0006-00       1       NUT, PL, ASSEM MA: 44X-04 X 0.20, ST, CD PL         -53        1       SEMICOND DVC, D1: (SEE ALLCR4005 REPL)         -54       342-0860-00       1       INSULATOR, TRANSITOR         -55       342-0860-00       1       INSULATOR, STR POLYSULFONE, BLACK OR NATURAL         -56       204-0906-00       3       BOOY, FLORG, TRANSITOR       DATE, ALL AND					4			
-48	-				4			
-49       211-0510-00       4       SCREW MACHINE:6-32 X 0.375, PMH, STL         -50       210-0008-00       4       MSHER, LOC://B INTL_0.02 TW, STL         -51       211-0012-00       1       SCREW MACHINE:4-40 X 0.375, PMH, STL         -52       210-00586-00       1       NTTPL/LASSEM WA:4X40 X 0.25, STL, CD PL         -53								
-50       210-0008-00       4       WKSHER LOCK:#0 INTL. 0.02 TK, STL         -51       211-0012-00       1       SCREW.MACHINE:4-40 X 0.357, PNH, STL         -52       210-0958-00       1       NUT. PL, ASSEM WA:4X40 X 0.25, STL, CD PL         -53					-	• •		
-51       211-0012-00       1       SCREW MACHINE:4-00 X 0.375. PNH, STL         -52       210-0586-00       1       NUT,PL,ASSEM.WA:4X40 X 0.25. STL, CD PL         -53	-49	<b>211-0</b> 510-00			4	SCREW, MACHINE: 6-32 X 0.375, PNH, STL		
-52       210-0586-00       1       NUT,PL,ASSEM.WA:4X40 X 0.25, STL, CD PL         -53	-50	<b>210-000</b> 8-00			4	WASHER, LOCK:#8 INTL, 0.02 THK, STL		
-53	-51	211-0012-00			1	SCREW.MACHINE:4-40 X 0.375, PNH, STL		
-54       342-0860-00       1       INSULATOR, XSTR:POLYBLICATE, BLACK OR NATURAL         -55       342-0863-00       1       INSULATOR, TRANSISTOR         -56       204-0906-00       3       .BOY, FUSEHOLDER: 3A6 FUSES         -57       200-2264-00       3       .CAP, FUSEHOLDER: 3A6 FUSES         -58       385-0160-00       4       .SPACER, POST: 0.812 L W/6-32 THD THRU, AL ATTACHING PARTS         -59       211-0504-00       4       .SCREW, MACHINE (6-32 X 0.250, PNH, STL END ATTACHING PARTS         -60       333-3612-00       1       PANEL, REAR: ATTACHING PARTS         -61       213-0906-00       9       SCREW, TPG, TR: 8-32 X 0.375, PNH, STL         -63       334-3379-04       1       MARKER, IDENT: HKD GROUND SYMBOL (12)         -64       210-0202-00       2       TERMINAL, LUG: 0.146 ID, LOCKING, BRZ TIN PL ATTACHING PARTS         -65       210-0457-00       2       NUT, PL, ASSEM WA: 6-32 X 0.312, STL CD PL END ATTACHING PARTS         -66        1       POMER ENTRY/FILTER: (SEE FL500 REPL)         -67       200-2222-00       1       GUARD, FAN:         -68        1       POMER ENTRY/FILTER: (SEE FL500 REPL)         -66        1       FGMACHING PARTS         -66	-52	<b>210-0586-0</b> 0			1	NUT,PL,ASSEM.WA:4X40 X 0.25, STL, CD PL		
-55       342-0863-00       1       INSULATOR, TRANSISTOR OCT BD ASSY INCLUDES:         -56       204-0906-00       3       IBOY, FUSENDLDER: 3AG & 5 x 20M FUSES         -57       200-2264-00       3       .CAP, FUSENDLDER: 3AG & 5 x 20M FUSES         -58       385-0160-00       4       .SPACER, POST: 0.812 tw/f6-32 THD THRU, AL ATTACHING PARTS         -59       211-0504-00       4       .SCREW, MACHINE:6-32 X 0.250, PNH, STL END ATTACHING PARTS         -60       333-3612-00       1       PANEL, REAR: ATTACHING PARTS         -61       213-0906-00       9       SCREW, TPG, TR:8-32 X 0.375, PNH, STL         -63       334-3379-04       1       MARKER, IDENT: MCD GROUND SYMBOL (12)         -64       210-0202-00       2       TERMINAL, LUG: 0.146 ID, LOCKING, BRZ TIN PL ATTACHING PARTS         -65       210-0457-00       2       NUT, PL, ASSEM WA:6-32 X 0.312, STL CD PL EDD ATTACHING PARTS         -66        1       POWER ENTRY/FILTER: (SEE FL500 REPL)         -67       200-2222-00       1       GUARD, FAN: ATTACHING PARTS         -68        1       FOWER ENTRY/FILTER: (SEE FL500 REPL) ATTACHING PARTS         -68        1       FAN: (SEE BSOO REPL) ATTACHING PARTS         -70       210-0513-00       4	-53				1	SEMICOND DVC,DI:(SEE A11CR4005 REPL)		
Oct BD ASSY INCLUDES:           -56         204-0906-00         3         IBOY, PUSEPOLDER: 3AG # DSES           -57         200-2264-00         3         IACP, PUSEPOLDER: 3AG # DSES           -58         385-0160-00         4         ISPACER, POST: 0.812 L W/G-32 THD THRU, AL ATTACHING PARTS           -59         211-0504-00         4         ISCREW, MACHINE :6-32 X 0.250, PNH, STL END ATTACHING PARTS           -60         333-3612-00         1         PANEL, REAR: ATTACHING PARTS           -61         213-0906-00         9         SCREW, TPG, TR: 6-32 X 0.375, PNH, STL           -63         334-3379-04         1         MARKER, IDENT: MKD GROUND SYMBOL (12)           -64         210-0202-00         2         TERMINAL, LUG: 0. 146 ID, LOCKING, BRZ TIN PL ATTACHING PARTS           -65         210-0457-00         2         NUT, PL, ASSEM WAIG-53 X 0.312, STL CD PL EDD ATTACHING PARTS           -66          1         POWER ENTRY/FILTER: (SEE FL500 REPL)           -67         200-2222-00         1         GUARD, FAN: CHALLER WAIGHINE :6-32 X 0.312, STL CD PL EDD ATTACHING PARTS           -68	-54	342-0860-00			1	INSULATOR, XSTR: POLYSULFONE, BLACK OR NATURAL		
-56       204-0906-00       3       .B00Y, FUSEHOLDER: 3ÅG & 5 X 20HH FUSES         -57       200-2264-00       3       .CAP, FUSEHOLDER: 3ÅG & DSES         -58       385-0160-00       4       .SPACER, POST:0.612 L W/6-32 THD THRU, AL         -59       211-0504-00       4       .SCREW, MACHINE: 6-32 X 0.250, PHH, STL         -60       333-3612-00       1       PANEL, REAR: ATTACHING PARTS         -61       213-0906-00       9       SCREW, TPG, TR: 6-32 X 0.375, PNH, STL         -63       334-3379-04       1       MARKER, IDENT: MKD GROUND SYMBOL (12)         -64       210-0202-00       2       TERMINAL, LUG: 0.146 ID, LOCKING, BRZ TIN PL ATTACHING PARTS         -65       210-0457-00       2       NUT, PL, ASSEM WA: 6-32 X 0.312, STL CD PL END ATTACHING PARTS         -66	-55	342-0863-00			1	INSULATOR, TRANSISTOR		
-57       200-2264-00       3       .CAP, FUSEHOLDER: 3A6 FUSES         -58       385-0160-00       4       .SPACER, POST: 0.812 L W/G-32 THD THRU, AL ATTACHING PARTS         -59       211-0504-00       4       .SCREW, MACHINE:6-32 X 0.250, PNH, STL END ATTACHING PARTS         -60       333-3612-00       1       PANEL, REAR: ATTACHING PARTS         -61       213-0906-00       9       SCREW, TPG, TR:8-32 X 0.375, PNH, STL         -63       334-3379-04       1       MARKER, IDENT: MKD GROUND SYMBOL (12)         -64       210-0202-00       2       TERMINAL, LUG: 0.146 ID, LOCKING, BRZ TIN PL ATTACHING PARTS         -65       210-0457-00       2       NUT, PL, ASSEM WA:6-32 X 0.312, STL CD PL END ATTACHING PARTS         -66        1       POWER ENTRY/FILTER: (SEE FL500 REPL)         -67       200-2222-00       1       GUARD, FAN:         -68        1       FAN: (SEE BSO0 REPL)         -68        1       FAN: (SEE BSO0 REPL)         -68        1       FAN: (SEE BSO0 REPL)         -69       211-0513-00       4       SCREW, ALG-6-32 X 0.312, STL CD PL END ATTACHING PARTS         -70       210-0457-00       4       NUT, PL, ASSEM WA:6-32 X 0.312, STL CD PL END ATTACHING PARTS						OKT BD ASSY INCLUDES:		
-58       385-0160-00       4       .SPAČER, POST: 0.812 L W/6-32 THD THRU, AL ATTACHING PARTS         -59       211-0504-00       4       .SCREW, MACHINE: 6-32 X 0.250, PNH, STL END ATTACHING PARTS         -60       333-3612-00       1       PAREL, REAR: ATTACHING PARTS         -61       213-0906-00       9       SCREW, TPG, TR:8-32 X 0.375, PNH, STL         -63       334-3379-04       1       MARKER, IDENT:MKD GROUND SYMBOL (12)         -64       210-0202-00       2       TERMINAL, LUG: 0.146 ID, LOCKING, BRZ TIN PL ATTACHING PARTS         -65       210-0457-00       2       NUT, PL, ASSEM WA: 6-32 X 0.312, STL CD PL END ATTACHING PARTS         -66        1       POWER ENTRY/FILTER: (SEE FL500 REPL)         -67       200-2222-00       1       GUARD, FAN:         -68        1       FAN: (SEE BSO0 REPL)         -68        1       FAN: (SEE BSO0 REPL)         -69       211-0513-00       4       SCREW, MACHINE: 6-32 X 0.312, STL CD PL END ATTACHING PARTS         -70       210-0457-00       4       NUT, PL, ASSEM WA: 6-32 X 0.312, STL CD PL END ATTACHING PARTS         -71       200-2467-01       2       COWER, COWINALUMINE         -71       200-2467-01       2       COWER, COWINALUMI	-56	204-0906-00			3	.BODY, FUSEHOLDER: 3AG & 5 X 20MM FUSES		
-59       211-0504-00       4       .SCREW, MACHINE (= -32 X 0. 250, PNH, STL END ATTACHING PARTS         -60       333-3612-00       1       PANEL, REAR: ATTACHING PARTS         -61       213-0906-00       9       SCREW, TPG, TR: 8-32 X 0. 375, PNH, STL         -63       334-3379-04       1       MARKER, IDENT:MKD GROUND SYMBOL (12)         -64       210-0202-00       2       TERMINAL, LUG: 0. 146 10, LOCKING, BRZ TIN PL ATTACHING PARTS         -65       210-0457-00       2       NUT, PL, ASSEM WA: 6-32 X 0. 312, STL CD PL END ATTACHING PARTS         -66        1       POWER ENTRY/FILTER: (SEE FL500 REPL)         -67       200-2222-00       1       GUARD, FAN:         -68        1       FAN: (SEE BS00 REPL)         -67       200-2222-00       1       GUARD, FAN:         -68        1       FAN: (SEE BS00 REPL)         -67       200-2222-00       1       GUARD, FAN:         -68        1       FAN:         -70       210-0457-00       4       SCREW, MACHINE FARTS         -70       210-0457-00       4       SCREW, MACHING PARTS         -71       200-2467-01       2       COVER, COM::ALUMINUM ATTACHING PARTS	-57	200-2264-00			3	.CAP, FUSEHOLDER: 3AG FUSES		
-59       211-0504-00       4       .SCREW, MACHINE:6-32 X 0.250, PNH, STL END ATTACHING PARTS         -60       333-3612-00       1       PANEL, REAR: ATTACHING PARTS         -61       213-0906-00       9       SCREW, TPG, TR:8-32 X 0.375, PNH, STL         -63       334-3379-04       1       MARKER, IDENT:MKD GROUND SYMBOL (12)         -64       210-0202-00       2       TERMINAL, LUG:0.146 ID, LOCKING, BRZ TIN PL ATTACHING PARTS         -65       210-0457-00       2       NUT, PL, ASSEM WA:6-32 X 0.312, STL CD PL END ATTACHING PARTS         -66        1       POWER ENTRY/FILTER: (SEE FL500 REPL)         -67       200-2222-00       1       GUARD, FAN:         -68        1       FAN: (SEE BS00 REPL)         -68        1       FAN: (SEE BS00 REPL)         -70       210-0457-00       4       SCREW, MACHINE:6-32 X 0.625, PNH, STL         -70       210-0457-00       4       SCREW, MACHINE:6-32 X 0.625, PNH, STL         -70       210-0457-00       4       SCREW, MACHINE:6-32 X 0.625, PNH, STL         -70       210-0457-00       4       SCREW, MACHINE:6-32 X 0.625, PNH, STL         -71       200-2467-01       2       COVER, CONN:ALUMINUM ATTACHING PARTS         -72	-58	385-0160-00			4	.SPACER, POST: 0.812 L W/6-32 THD THRU, AL		
-60       333-3612-00       1       PANEL_REAR: ATTACHING PARTS         -61       213-0906-00       9       SCREW, TPG, TR: 8-32 X 0.375, PNH, STL         -63       334-3379-04       1       MARKER, IDENT:MKD GROUND SYMBOL (12)         -64       210-0202-00       2       TERMINAL, LUG: 0.146 ID, LOCKING, BRZ TIN PL ATTACHING PARTS         -65       210-0457-00       2       NUT, PL, ASSEM WA: 6-32 X 0.312, STL CD PL END ATTACHING PARTS         -66        1       POWER ENTRY/FILTER: (SEE FL500 REPL)         -67       200-2222-00       1       GUARD, FAN:         -68        1       FON ENTRY/FILTER: (SEE FL500 REPL)         -67       210-0457-00       4       SCREW, MACHINE: 6-32 X 0.625, PNH, STL         -68        1       FAN: (SEE BOO REPL) ATTACHING PARTS         -69       211-0513-00       4       SCREW, MACHINE: 6-32 X 0.625, PNH, STL         -70       210-0457-00       4       SCREW, MACHINE PARTS         -71       200-2467-01       2       COVER, COM: ALLMINUM ATTACHING PARTS         -72       211-0244-00       4       SCR, ASSEM WA: 6-32 X 0.312, PNH STL         -73       210-0586-000       2       NUT, PL, ASSEM WA: 4-40 X 0.312, PNH STL         -73						ATTACHING PARTS		
-60       333-3612-00       1       PANEL, REAR: ATTACHING PARTS         -61       213-0906-00       9       SCREW, TPG, TR:8-32 X 0.375, PNH, STL         -63       334-3379-04       1       MARKER, IDENT:MKD GROUND SYMBOL (12)         -64       210-0202-00       2       TERMINAL, LUG:0.146 ID, LOCKING, BRZ TIN PL ATTACHING PARTS         -65       210-0457-00       2       NUT, PL, ASSEM WA:6-32 X 0.312, STL CD PL END ATTACHING PARTS         -66        1       POWER ENTRY/FILTER: (SEE FL500 REPL)         -67       200-2222-00       1       GUARD, FAN:         -68        1       FONER ENTRY/FILTER: (SEE FL500 REPL)         -68        1       FAN: (SEE B500 REPL)         -69       211-0513-00       4       SCREW, MACHINE: 6-32 X 0.625, PNH, STL         -70       210-0457-00       4       NUT, PL, ASSEM WA: 6-32 X 0.312, STL CD PL         -71       200-2467-01       2       COVER, CONN: ALUMINUM         -71       200-2467-01       2       COVER, CONN: ALUMINUM         -72       211-0244-00       4       SCR, ASSEM WSHR: 4-40 X 0.312, PNH STL         -73       210-0246-00       2       NUT, PL, ASSEM WA: 4-40 X 0.255 STL CD PL         -74       134-0159-00	-59	211-0504-00			4	.SCREW, MACHINE: 6-32 X 0.250, PNH, STL		
-61       213-0906-00       9       SCREW, TPG, TR: 8-32 X 0.375, PNH, STL         -63       334-3379-04       1       MARKER, IDENT: MCD GROUND SYMBOL (12)         -64       210-0202-00       2       TERMINAL, LUG: 0.146 ID, LOCKING, BRZ TIN PL ATTACHING PARTS         -65       210-0457-00       2       NUT, PL, ASSEM WA: 6-32 X 0.312, STL CD PL END ATTACHING PARTS         -66        1       POWER ENTRY/FILTER: (SEE FL500 REPL)         -67       200-2222-00       1       GUARD, FAN:         -68        1       FOWER ENTRY/FILTER: (SEE FL500 REPL)         -67       200-2222-00       1       GUARD, FAN:         -68        1       FAN: (SEE BOO REPL)         -67       211-0513-00       4       SCREW, MACHINE: 6-32 X 0.625, PMH, STL         -70       210-0457-00       4       SCREW, MACHINE: 6-32 X 0.625, PMH, STL         -71       200-2467-01       2       COVER, CONN: ALUMINUM ATTACHING PARTS         -71       200-2467-01       2       COVER, CONN: ALUMINUM ATTACHING PARTS         -72       211-0244-00       4       SCR, ASSEM WSHR: 4-40 X 0.312, PMH STL         -73       210-04586-00       2       SUTON, PLUG: 0.38 DIA, PLASTIC						END ATTACHING PARTS		
-61       213-0906-00       9       SCREW, TPG, TR:8-32 X 0.375, PNH, STL         -63       334-3379-04       1       MARKER, IDENT:MCD GROUND SYMBOL (12)         -64       210-0202-00       2       TERMINAL, LUG:0.146 ID, LOCKING, BRZ TIN PL ATTACHING PARTS         -65       210-0457-00       2       NUT, PL, ASSEM WA:6-32 X 0.312, STL CD PL ED ATTACHING PARTS         -66        1       POWER ENTRY/FILTER: (SEE FL500 REPL)         -67       200-2222-00       1       GUARD, FAN:         -68        1       FAN: (SEE B500 REPL) ATTACHING PARTS         -68        1       FAN: (SEE B500 REPL) ATTACHING PARTS         -69       211-0513-00       4       SCREW, MACHINE: 6-32 X 0.625, PNH, STL         -70       210-0457-00       4       SCREW, MACHINE PARTS         -71       200-2467-01       2       COVER, CONN: ALUMINUM ATTACHING PARTS         -71       200-2467-01       2       COVER, CONN: ALUMINUM ATTACHING PARTS         -72       211-0244-00       4       SCR.ASSEM WAR: 4-40 X 0.312, PNH STL         -73       210-0586-00       2       NUT, PL, ASSEM WAR: 4-40 X 0.25 STL CD PL         -74       134-0159-00       6       BUTTON, PLUG:0.38 DIA, PLASTIC	-60	333-3612- <b>0</b> 0			1	PANEL, REAR:		
-63       334-3379-04       1       MARKER, IDENT: MCD GROUND SYMBOL (12)         -64       210-0202-00       2       TERMINAL, LUG: 0. 146 ID, LOCKING, BRZ TIN PL ATTACHING PARTS         -65       210-0457-00       2       NUT, PL, ASSEM WA: 6-32 X 0.312, STL CD PL END ATTACHING PARTS         -66        1       POWER ENTRY/FILTER: (SEE FL500 REPL)         -67       200-2222-00       1       GLARD, FAN:         -68        1       FAN: (SEE B500 REPL)         -68        1       FAN: (SEE B500 REPL)         -69       211-0513-00       4       SCREW, MACHINE: 6-32 X 0.625, PNH, STL         -70       210-0457-00       4       NUT, PL, ASSEM WA: 6-32 X 0.312, STL CD PL END ATTACHING PARTS         -71       200-2467-01       2       COVER, CONN: ALUMINUM ATTACHING PARTS         -71       200-2467-01       2       COVER, CONN: ALUMINUM ATTACHING PARTS         -72       211-0244-00       4       SCR, ASSEM WA: 4-40 X 0.312, PNH STL         -73       210-0586-00       2       NUT, PL, ASSEM WA: 4X40 X 0.25 STL CD PL         -74       134-0159-00       6       BUTTON, PLUG: 0.38 DIA, PLASTIC						ATTACHING PARTS		
-64       210-0202-00       2       TERMINAL,LUG:0.146 ID,LOCKING,BZ TIN PL ATTACHING PARTS         -65       210-0457-00       2       NUT,PL,ASSEM WA:6-32 X 0.312,STL CD PL END ATTACHING PARTS         -66        1       POWER ENTRY/FILTER: (SEE FL500 REPL)         -67       200-2222-00       1       GUARD,FAN:         -68        1       FAN: (SEE BS00 REPL)         -68        1       FAN: (SEE BS00 REPL)         -70       210-0457-00       4       SCREW,MACHINE:6-32 X 0.625, PNH, STL         -70       210-0457-00       4       NUT, PL,ASSEM WA:6-32 X 0.312, STL CD PL END ATTACHING PARTS         -71       200-2467-01       2       COVER,CONN:ALUMINUM ATTACHING PARTS         -72       211-0244-00       4       SCR.ASSEM WA:4-40 X 0.312, PNH STL         -73       210-0586-00       2       NUT,PL,ASSEM WA: 4X40 X 0.25 STL CD PL         -74       134-0159-00       6       BUTTON,PLUG:0.38 DIA,PLASTIC	-61	213-0906-00			9	SCREW, TPG, TR:8-32 X 0.375, PNH, STL		
-64       210-0202-00       2       TERMINAL,LUG:0.146 ID,LOCKING,BZ TIN PL ATTACHING PARTS         -65       210-0457-00       2       NUT,PL,ASSEM WA:6-32 X 0.312,STL CD PL END ATTACHING PARTS         -66        1       POWER ENTRY/FILTER: (SEE FL500 REPL)         -67       200-2222-00       1       GUARD,FAN:         -68        1       FAN: (SEE BS00 REPL)         -68        1       FAN: (SEE BS00 REPL)         -70       210-0457-00       4       SCREW,MACHINE:6-32 X 0.625, PNH, STL         -70       210-0457-00       4       NUT, PL,ASSEM WA:6-32 X 0.312, STL CD PL END ATTACHING PARTS         -71       200-2467-01       2       COVER,CONN:ALUMINUM ATTACHING PARTS         -72       211-0244-00       4       SCR.ASSEM WA:4-40 X 0.312, PNH STL         -73       210-0586-00       2       NUT,PL,ASSEM WA: 4X40 X 0.25 STL CD PL         -74       134-0159-00       6       BUTTON,PLUG:0.38 DIA,PLASTIC								
-65       210-0457-00       2       NUT, PL, ASSEM WA:6-32 X 0.312, STL CD PL END ATTACHING PARTS         -66        1       POWER ENTRY/FILTER: (SEE FL500 REPL)         -67       200-2222-00       1       GUARD, FAN:         -68        1       FAN: (SEE B500 REPL) ATTACHING PARTS         -68        1       FAN: (SEE B500 REPL) ATTACHING PARTS         -69       211-0513-00       4       SCREW, MACHINE: 6-32 X 0.625, PNH, STL         -70       210-0457-00       4       NUT, PL, ASSEM WA:6-32 X 0.312, STL CD PL END ATTACHING PARTS         -71       200-2467-01       2       COVER, CONN: ALUMINUM ATTACHING PARTS         -72       211-0244-00       4       SCR, ASSEM WSHR:4-40 X 0.312, PNH STL         -73       210-0586-00       2       NUT, PL, ASSEM WA: 4X40 X 0.25 STL CD PL         -74       134-0159-00       6       BUTTON, PLUG:0.38 DIA, PLASTIC	-63	334-3379-04			1	MARKER, IDENT: MKD GROUND SYMBOL (12)		
-65       210-0457-00       2       NUT, PL, ASSEM WA:6-32 X 0.312, STL CD PL END ATTACHING PARTS         -66        1       POWER ENTRY/FILTER: (SEE FL500 REPL)         -67       200-2222-00       1       GUARD, FAN:         -68        1       FAN: (SEE B500 REPL) ATTACHING PARTS         -69       211-0513-00       4       SCREW, MACHINE:6-32 X 0.625, PNH, STL         -70       210-0457-00       4       NUT, PL, ASSEM WA:6-32 X 0.625, PNH, STL         -71       200-2467-01       2       COVER, CONN: ALUMINUM ATTACHING PARTS         -72       211-0244-00       4       SCR, ASSEM WSHR:4-40 X 0.312, PNH STL         -73       210-0586-00       2       NUT, PL, ASSEM WA: 4X40 X 0.25 STL CD PL         -74       134-0159-00       6       BUTTON, PLUG:0.38 DIA, PLASTIC	-64	210-0202-00			2	TERMINAL, LUG: 0.146 ID, LOCKING, BRZ TIN PL		
END ATTACHING PARTS         -66          -67       200-2222-00         -68          -68          -69       211-0513-00         -70       210-0457-00         200-2467-01       200-2467-01         -71       200-2467-01         -72       211-0244-00         -73       210-0586-00         -74       134-0159-00						ATTACHING PARTS		
-66        1       POWER ENTRY/FILTER: (SEE FL500 REPL)         -67       200-2222-00       1       GUARD,FAN:         -68        1       FAN: (SEE B500 REPL)         -69       211-0513-00       4       SCREW,MACHINE:6-32 X 0.625,PNH,STL         -70       210-0457-00       4       NUT,PL,ASSEM WA:6-32 X 0.312,STL CD PL         -71       200-2467-01       2       COVER,CONN:ALUMINUM         -72       211-0244-00       4       SCR,ASSEM WA: 440 X 0.312,PNH STL         -73       210-0586-00       2       NUT,PL,ASSEM WA: 4X40 X 0.25 STL CD PL         -74       134-0159-00       6       BUTTON,PLUG:0.38 DIA,PLASTIC	-65	210-0457-00			2	NUT, PL, ASSEM WA: 6-32 X 0.312, STL CD PL		
-67       200-2222-00       1       GUARD, FAN:         -68        1       FAN: (SEE B500 REPL) ATTACHING PARTS         -69       211-0513-00       4       SCREW, MACHINE: 6-32 X 0.625, PNH, STL         -70       210-0457-00       4       NUT, PL, ASSEM WA: 6-32 X 0.312, STL CD PL END ATTACHING PARTS         -71       200-2467-01       2       COVER, CONN: ALLMINUM ATTACHING PARTS         -72       211-0244-00       4       SCR, ASSEM WSHR: 4-40 X 0.312, PNH STL         -73       210-0586-00       2       NUT, PL, ASSEM WA: 4X40 X 0.25 STL CD PL         -74       134-0159-00       6       BUTTON, PLUG: 0.38 DIA, PLASTIC						END ATTACHING PARTS		
-68        1       FAN: (SEE B500 REPL) ATTACHING PARTS         -69       211-0513-00       4       SCREW, MACHINE:6-32 X 0.625, PNH, STL         -70       210-0457-00       4       NUT, PL, ASSEM WA:6-32 X 0.312, STL CD PL END ATTACHING PARTS         -71       200-2467-01       2       COVER, CONN: ALLMINUM ATTACHING PARTS         -72       211-0244-00       4       SCR, ASSEM WS:HR:4-40 X 0.312, PNH STL         -73       210-0586-00       2       NUT, PL, ASSEM WA: 4X40 X 0.25 STL CD PL         -74       134-0159-00       6       BUTTON, PLUG:0.38 DIA, PLASTIC	<b>-6</b> 6				1	POWER ENTRY/FILTER: (SEE FL500 REPL)		
-69       211-0513-00       4       SCREW, MACHINE:6-32 X 0.625, PNH, STL         -70       210-0457-00       4       NUT, PL, ASSEM WA:6-32 X 0.312, STL CD PL END ATTACHING PARTS         -71       200-2467-01       2       COVER, CONN:ALLMINUM ATTACHING PARTS         -72       211-0244-00       4       SCR, ASSEM WSHR:4-40 X 0.312, PNH STL         -73       210-0586-00       2       NUT, PL, ASSEM WA: 4X40 X 0.25 STL CD PL         -74       134-0159-00       6       BUTTON, PLUG:0.38 DIA, PLASTIC	-67	200-2222-00			1	GUARD, FAN:		
-69       211-0513-00       4       SCREW, MACHINE:6-32 X 0.625, PNH, STL         -70       210-0457-00       4       NUT, PL, ASSEM WA:6-32 X 0.312, STL CD PL END ATTACHING PARTS         -71       200-2467-01       2       COVER, CONN:ALLMINUM ATTACHING PARTS         -72       211-0244-00       4       SCR, ASSEM WSHR:4-40 X 0.312, PNH STL         -73       210-0586-00       2       NUT, PL, ASSEM WA: 4X40 X 0.25 STL CD PL         -74       134-0159-00       6       BUTTON, PLUG:0.38 DIA, PLASTIC	-68				1	FAN: (SEE B500 REPL)		
-70       210-0457-00       4       NUT, PL, ASSEM WA: 6-32 X 0.312, STL CD PL END ATTACHING PARTS         -71       200-2467-01       2       COVER, CONN: ALLMINUM ATTACHING PARTS         -72       211-0244-00       4       SCR, ASSEM WSHR: 4-40 X 0.312. PNH STL         -73       210-0586-00       2       NUT, PL, ASSEM WA: 4X40 X 0.25 STL CD PL         -74       134-0159-00       6       BUTTON, PLUG: 0.38 DIA, PLASTIC						ATTACHING PARTS		
-70       210-0457-00       4       NUT, PL, ASSEM WA: 6-32 X 0.312, STL CD PL END ATTACHING PARTS         -71       200-2467-01       2       COVER, CONN: ALLMINUM ATTACHING PARTS         -72       211-0244-00       4       SCR, ASSEM WSHR: 4-40 X 0.312. PNH STL         -73       210-0586-00       2       NUT, PL, ASSEM WA: 4X40 X 0.25 STL CD PL         -74       134-0159-00       6       BUTTON, PLUG: 0.38 DIA, PLASTIC	-69	211-0513-00			4	SCREW, MACHINE: 6-32 X 0.625, PNH, STL		
-71       200-2467-01       2       COVER, CONN: ALLMINUM ATTACHING PARTS         -72       211-0244-00       4       SCR, ASSEM WSHR: 4-40 X 0.312. PNH STL         -73       210-0586-00       2       NUT, PL, ASSEM WA: 4X40 X 0.25 STL CD PL         -74       134-0159-00       6       BUTTON, PLUG: 0.38 DIA, PLASTIC	-70	210-0457-00			4			
-71       200-2467-01       2       COVER, CONN: ALLMINUM ATTACHING PARTS         -72       211-0244-00       4       SCR, ASSEM WSHR: 4-40 X 0.312. PNH STL         -73       210-0586-00       2       NUT, PL, ASSEM WA: 4X40 X 0.25 STL CD PL         -74       134-0159-00       6       BUTTON, PLUG: 0.38 DIA, PLASTIC	-							
-72       211-0244-00       4       SCR,ASSEM WSHR:4-40 X 0.312.PNH STL         -73       210-0586-00       2       NUT,PL,ASSEM WA: 4X40 X 0.25 STL CD PL         -74       134-0159-00       6       BUTTON,PLUG:0.38 DIA,PLASTIC	-71	200-2467-01			2	COVER, CONN: ALUMINUM		
-72       211-0244-00       4       SCR, ASSEM WSHR: 4-40 X 0.312. PNH STL         -73       210-0586-00       2       NUT, PL, ASSEM WA: 4X40 X 0.25 STL CD PL         -74       134-0159-00       6       BUTTON, PLUG: 0.38 DIA, PLASTIC	-							
-73     210-0586-00     2     NUT,PL,ASSEM WA: 4X40 X 0.25 STL CD PL       -74     134-0159-00     6     BUTTON, PLUG: 0.38 DIA, PLASTIC	-72	211-0244-00			4			
-74 134-0159-00 6 BUTTON, PLUG: 0.38 DIA, PLASTIC						•		
					-	· · ·		

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Fig. &

Index	Tektronix	Serial/Ass	embly No.			Mfr.	
No.	Part No.	Effective	Dscont	Qty	12345 Name & Description	Code	Mfr. Part No.
3 -1	131-0955-00			6	CONN,RCPT,ELEC:BNC,FEMALE (OPTION 02.12 ONLY)	13511	31-279
-2	210-0255-00			6	TERMINAL, LUG:0.391 ID, LOCKING, BRS CD PL (OPTION 02,12 ONLY)	12327	ORDER BY DESCR
-3	131-1 <b>344-00</b>			1	CONN, RCPT, ELEC:D SERIES, 50 CONT, MALE (OPTION 02, 12 ONLY)	71468	DD-50P
-4	131-1345-00			1	CONN, RCPT, ELEC:D SERIES, 50 CONT, FEMALE (OPTION 02, 12 ONLY)	71468	DD-50S
-5	214-1593-02			40	KEY, CONN PLZN: CKT BOARD CONN (OPTION 02, 12 ONLY)	80009	21 <b>4-1593-02</b>
-6	131-1319-00			1	(OPTION 02, 12 ONLY)	71468	DD51216
-7	175-3301-00			12	CABLE ASSY, RF:50 OHM COAX, 15.0 L,9-4 (OPTION 02, 12 ONLY)	80009	175-3301-00
-8	195-0993-00			12	LEAD, ELECTRICAL:22 AWG, 15.0 L,9-4 (OPTION 02, 12 ONLY)	80009	195-0993-00
-9	352-0171-00			72	HLDR, TERM CONN:1 WIRE, BLACK (OPTION 02, 12 ONLY)	TK2165	352-0171-00
-10	351-0636-00			AR	SLIDE,DWR,EXT:20.0 X 1.69,PAIR,R&L	80009	351-0636-00
-11	351-0104-03				SL SECT, DWR EXT:12.625 L, W/O HARDWARE ATTACHING PARTS	06666	C-720-3
-12	212-0070-00			8	SCREW, MACHINE: 8-32 X 0.312, FLH, 100 DEG, STL	TK0435	ORDER BY DESCR
-13	210-0458-00			8	NUT, PL, ASSEM WA:8-32 X 0.344, STL CD PL END ATTACHING PARTS	781 <b>89</b>	511-081800-00
-14	367-0022-00			2	HANDLE,BOW:4.579 LBRS CRPL ATTACHING PARTS	80009	367-0022-00
-15	211-0755-00			4	SCR,MACH:10-32 X 0.5,PNH END ATTACHING PARTS	TK0858	211-0755-00
-16	390-1105-00			2	CABINET, SIDE: RACKMOUNT (OPTION 10,12 ONLY) ATTACHING PARTS	0.1260	390-1105-00
-17	213-0183-00			4	SCREW, TPG, TF:6020 X 0.5, TYPE B, PNH, STL END ATTACHING PARTS	83385	ORDER BY DESCR
-18	119-0147-00			1	FAN, VENTILATING:115V,14W,3200RPM,105CFM FAN, VENT:(SEE FIG 2,INDEX 91 TM506A MPL) (OPTION 02,12 ONLY)	82877	028021
-19	390-1049-01			AR	CABINET, BOTTOM: FULL RACK X 17.956, ALUMINUM CABINET: (SEE FIG 1, INDEX 6 MPL TM506A)	80009	390-1049-01
-20	390-1043-00			AR	CABINET, TOP: ALUMINUM CABINET: (SEE FIG 1, INDEX 8 MPL TM506A)	80009	390-1043-00

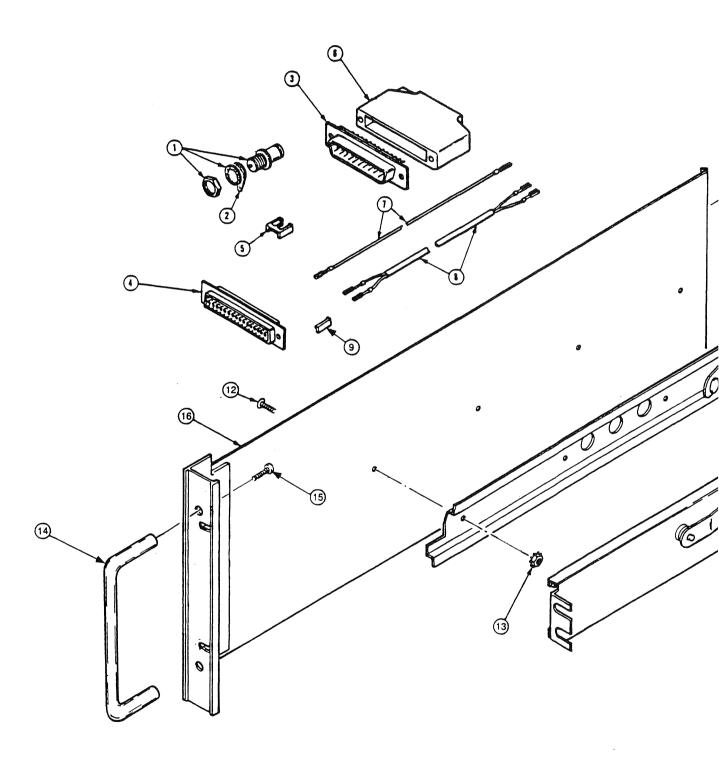
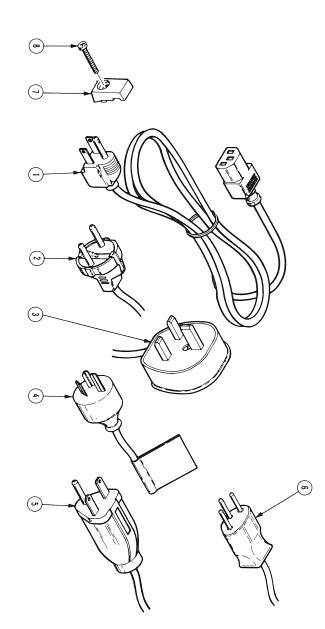


FIG. 3 OPTION 02, OPTION 10

FIG. 4 ACCESSORIES



#### Replaceable Mechanical Parts - TM 506A

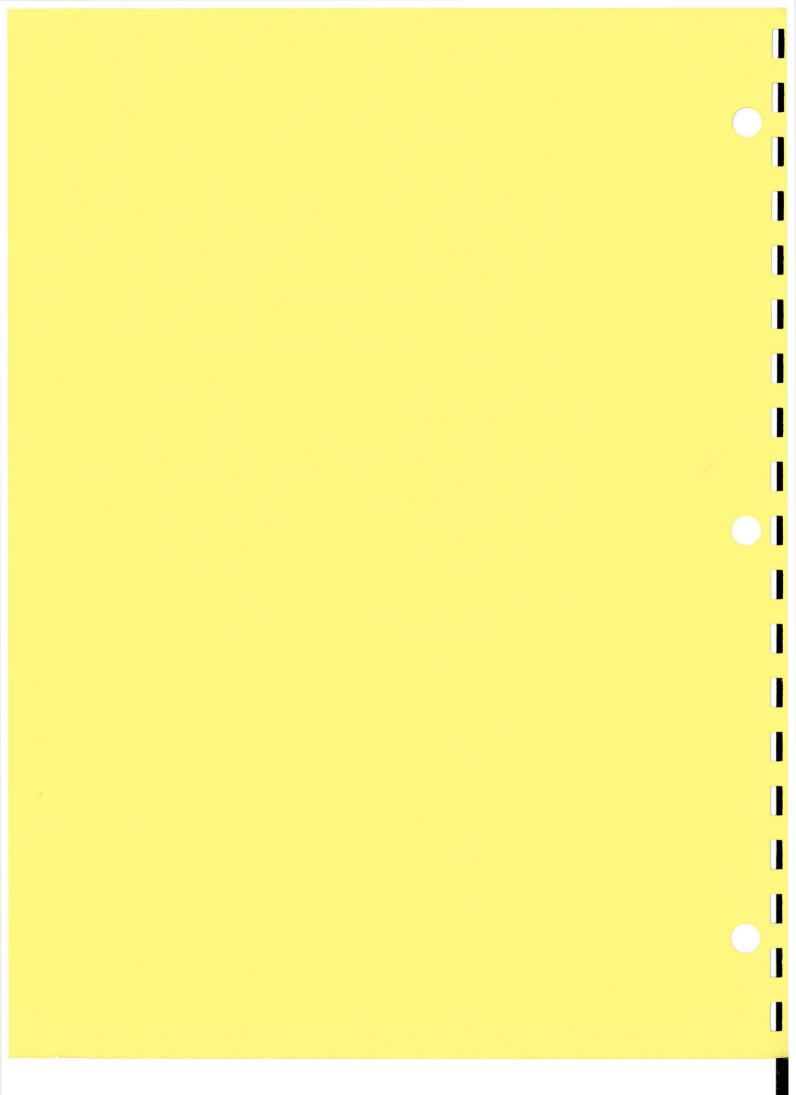
Fig. &	Tektronix	Serial/Asser		•		Norra B. Davasladian	Mfr.	Mr. Deet Me
No.	Part No.	Effective	Discont	Qty	12345	Name & Description	Code	Mfr. Part No.
4-					STANDA	RD ACCESSORIES		
-1	161-0066-00			1		SSY,PWR,:3,18AWG,115V,98.0 L	16428	CH8481, FH8481
	159-0027-00			1		ARTRIDGE:3AG,4A,250,SLOW BLOW ARD ONLY)	71400	MDX 4
-2	161-0066-09			1	CABLE A	SSY, PWR, 3,0.75MM SQ, 220V, 99.0 L	S3109	86511000
	159-0023-00			1		ARTRIDGE:3AG,2A,250,SLOW BLOW	71400	MDX 2
-3	161-0066-10			1	CABLE A	SSY,PWR,:3,0.75MM SQ,240V,96.0 L	TK1373	24230
	159-0023-00			1		ARTRIDGE:3AG,2A,250,SLOW BLOW	71400	MDX 2
-4	161-0066-11			1	CABLE A	SSY,PWR,:3,0.75MM,240V,96.0 L	S3109	ORDER BY DESCR
	159-0023-00			1	•	ARTRIDGE:3AG,2A,250,SLOW BLOW A AUSTRALIAN)	71400	MDX 2
-5	161-0066-12			1	CABLE A	SSY,PWR,:3,18AWG,250V,99.0 L	70903	CH-77893
	159-0023-00			1		ARTRIDGE:3AG,2A,250,SLOW BLOW	71400	MDX 2
-6	161-0154-00			1	CABLE A	SSY,PWR,:3,0.75MM SQ,240V,6A,2.5M L	S3109	86515000
	159-0023-00			1		ARTRIDGE: 3AG, 2A, 250, SLOW BLOW AS SWITZERLAND)	71400	MDX 2
-7	343-1085-01			6	RTNR,PL	-IN UNIT:NYLON,TEK BLUE	80009	343-1085-01
-8	213-0760- <b>00</b>			6	SCREW,	TPG, TF:8-32 X 0.875, SPCL TAPTITE, FILH	72228	ORDER BY DESCR
	070-69 <b>29-00</b>			1	MANUAL	TECH: TM506A POWER MODULE	80009	070-6929-00

# **MANUAL CHANGE INFORMATION**

At Tektronix, we continually strive to keep up with latest electronic developments by adding circuit and component improvements to our instruments as soon as they are developed and tested.

Sometimes, due to printing and shipping requirements, we can't get these changes immediately into printed manuals. Hence, your manual may contain new change information on following pages.

A single change may affect several sections. Since the change information sheets are carried in the manual until all changes are permanently entered, some duplication may occur. If no such change pages appear following this page, your manual is correct as printed.



e	_		

## MANUAL CHANGE INFORMATION

Date: \_\_\_\_\_June 1, 1988

\_\_\_\_\_ Change Reference: \_\_\_\_\_C1/0688 \_\_\_\_\_\_ Manual Part No: \_\_\_070-6929-00

Product: \_\_\_\_\_\_\_ TM 506A Power Module \_\_\_\_\_\_

## DESCRIPTION

Effective for all serial numbers, Please make the following changes:

Electrical Diagram

Change:

Schematic 3 Power Supply

A11R1025

1k ohm

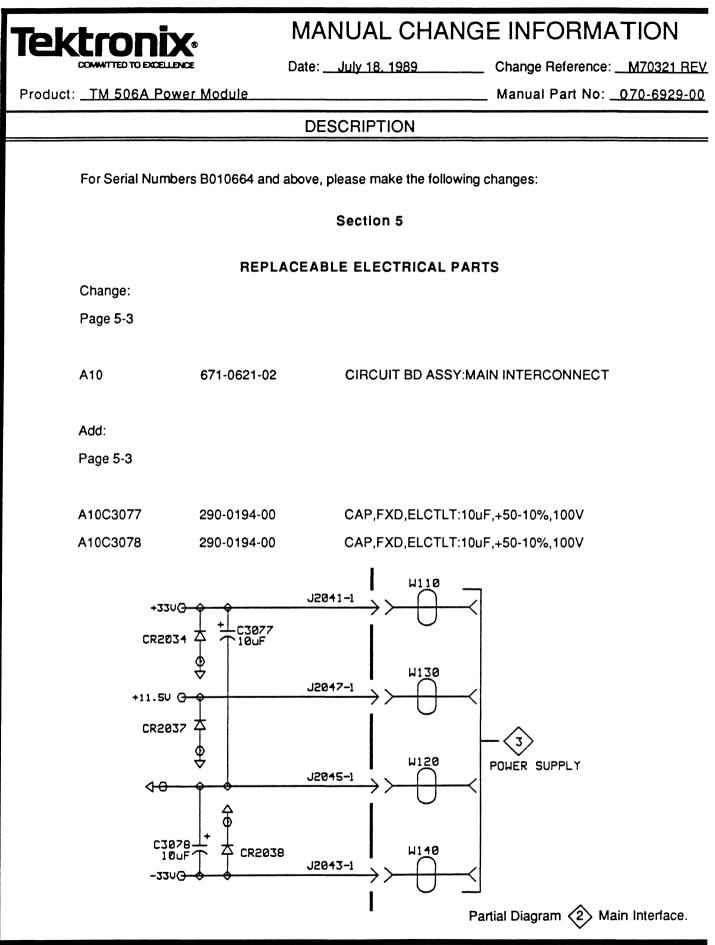
A11R3025

1k ohm

Tok	tron	iv.	MAN	NUAL CHA	NGE INFORM	MATION			
ICA	COMMITTED TO EXCE		Date:	Feb 24, 1989	Change Reference	e:M66693			
Product:	TM 506A Pov	wer Module			Manual Part No:	070-6929-00			
			DES	CRIPTION					
	For Serial Numbers B010527 and above, please make the following changes:								
				Section 5					
		F	REPLACEAB	LE ELECTRICAL P	ARTS				
	Change:								
	Page 5-3								
	A10	670-0	621-01	Circuit Bd Assy:M	ain Interface				
			Pa	ge 1 of 1					

<b>Tektronix</b>			NGE INFORMATION
COMMITTED TO EXCELLENCE	Date: May 1	7, 1988	Change Reference:M66952
Product: TM 506A Power Mo	odule		Manual Part No.:070-6929-00
	DESCR	RIPTION	
Effective Serial following changes	Number B01010 :	9 and ab	ove, please make the
	Electrical	Parts List	
Change:			
F500 159-0021	7-00 Fuse,Car	tridge:3A6	5,4A,125V,23Sec
Refer to schematic changes.	: <2> MAIN	N INTERFA	CE for the following
For the followir pins should be:	ng NPN transis	tors, the :	interconnect connector
Transist	or Base	Emitter	Collector
Q3017 Q3029 Q3039 Q3057 Q3070 Q450	6A 6A 6A 6A 6A	78 78 78 78 78 78	7A 7A 7A 7A 7A 7A
	Page 1	of 1	

Tektror	EXCELLENCE Date:	ANUAL CHANC July 28, 1988	GE INFORMATION Change Reference:
Product: <u>TM 506A Power M</u>		ESCRIPTION	Manual Part No:070-6929-00
For Serial Numbers I	3010152 and above, p	lease make the following cf	nanges:
	Ope	rating Instructions	
Add:			
Page 2-1			
Fuse Replacement			
	The fuse value labeli should read: "4A SLO	NOTE ng on the instrument rear p DW and 2A SLOW".	anel
	Replace	able Mechanical Parts	
Change to:			
Page 7-6			
-60	333-3612-01	1 Panel, Rear:	



Magnet i ang

## Replaceable Mechanical Parts - TM 506A

Fig. &	Tektronix Part No.	Serial/Asser	nbly No. Discont	0.54	12345	Name & Description	Mfr. Code	Mfr. Part No.
NO.	Part NO.	Ellective	Discom	uly	12345	Name a Description	COUR	Mil. Fall NO.
4-					STANDAF	AD ACCESSORIES		
-1	161-0066-00			1	CABLE AS	SSY,PWR,:3,18AWG,115V,98.0 L	16428	CH8481, FH8481
	159-0027-00			1		RTRIDGE:3AG,4A,250,SLOW BLOW RD ONLY)	71400	MDX 4
-2	161-0066-09			1	CABLE AS	SSY,PWR,:3,0.75MM SQ,220V,99.0 L	S3109	86511000
	159-0023-00			1		RTRIDGE:3AG,2A,250,SLOW BLOW A1 EUROPEAN)	71400	MDX 2
-3	161-0066-10			1	CABLE AS	SSY,PWR,:3,0.75MM SQ,240V,96.0 L	TK1373	24230
	159-0023-00			1		RTRIDGE:3AG,2A,250,SLOW BLOW A2 UNITED KINGDOM)	71400	MDX 2
-4	161-0066-11			1	CABLE AS	SSY,PWR,:3,0.75MM,240V,96.0 L	S3109	ORDER BY DESCR
	159-0023-00			1		RTRIDGE:3AG,2A,250,SLOW BLOW A3 AUSTRALIAN)	71400	MDX 2
-5	161-0066-12			1	CABLE AS	SSY,PWR,:3,18AWG,250V,99.0 L	70903	CH-77893
	159-0023-00			1	•	RTRIDGE:3AG,2A,250,SLOW BLOW A4 NORTH AMERICAN)	71400	MDX 2
-6	161-0154-00			1	CABLE AS	SSY,PWR,:3,0.75MM SQ,240V,6A,2.5M L	S3109	86515000
	159-0023-00			1		RTRIDGE:3AG,2A,250,SLOW BLOW A5 SWITZERLAND)	71400	MDX 2
-7	343-1085-01			6	RTNR,PL-	IN UNIT:NYLON, TEK BLUE	80009	343-1085-01
-8	213-0760- <b>00</b>			6	SCREW,T	PG, TF:8-32 X 0.875, SPCL TAPTITE, FILH	72228	ORDER BY DESCR
	070-6929-00			1	MANUAL,	TECH: TM506A POWER MODULE	80009	070-6929-00

Tektronix	Manual Change Informatio								
	Date: _	Mar 25, 1991	_ Change Reference:	M74643					
Product:TM 506A Power Module			_ Manual Part Number:	070-6929-00					
		Description							
Please use the attached page to replace the equivalent page in your manual.									

Fig. &	<b>•</b> • • •						
Index No.	T <b>ektronix</b> Part No.	Serial/Assembly Effective Ds		0+11	12345 Name & Description	Mfr. Code	Hfr. Part No.
			cont				
1-1	3 <b>48-0544-00</b>			4	RTNR.CAB.COVER:CORNER.TEK BLUE.PC ATTACHING PARTS	80009	348-0544-00
-2	213-0782-00			4	SCREW.TPG,TF:8-32 X 0.625.FILH.STL END ATTACHING PARTS	83486	ORDER BY DESCR
-3	348-0201-00			1	FLIP-STAND. CAB. : 2.875 H.SST	TK0508	(ADVISE)
-4	348-0776-00			4	PAD. CAB. FOOT : POLYURETHANE	80009	348-0776-00
-5	348-0617-00			4	FOOT, CABINET: BOT, TEK BLUE, POLYCARBONATE	80009	348-0617-00
-6	390-1044-00			1	CABINET, BOTTOM: FULL RACK X 17.956. ALUMINUM	80009	390-1044-00
-7	390-1040-00			1	CABINET.SIDE:7 X 17.956.ALUMINUM	80009	390-1040-00
-8	390-1043-00			1	CABINET. TOP: FULL RACK X 17.956. ALLMINUM	80009	390-1043-00
-9	390-1042-00			1	CABINET, SIDE: 7 X 17.956, W/HANDLE RTNR	80009	390-1042-00
-10	2 <b>00-2191-00</b>			2	CAP, RETAINER: PLASTIC	80009	200-2191-00
-11	367-0248-01				HANDLE, CARRYING: 16.341 L.W/CLIP	80009	367-0248-01
-12	351-0619-00				GUIDE.PL-IN UNI:BOTTOM	8 <b>000</b> 9	351-0619-00
-13	37 <b>8-2044-0</b> 1			1	GRILLE, AIR: INTAKE, TEK BLUE	80009	378-2044-01
-14	20 <b>0-2575-00</b>			1	COVER, SWITCH:	80009	200-2576-00
-15				1	SWITCH, ROCKER: (SEE SW500 REPL)		
-16	2 <b>00-2565-</b> 01			1	COVER.SWITCH: FRONT, TEK BLUE, PC	80009	200-2565-01
-17	426-1706-03			1	FR SECT, PL-IN: FINISHED	80009	426-1706-03
					ATTACHING PARTS		
-18	211-0502-00			8	SCREW.MACHINE:6-32 X 0.188.FLH.100 DEG.STL END ATTACHING PARTS	TK0435	ORDER BY DESCR
-19	124 <b>038000</b>			2	STRIP, TRIM: CORNER, TOP, BLUE, 17.41 L	80009	124-0380-00
-20	12 <b>4038100</b>			2	STRIP, TRIM: CORNER, BOT, BLUE, 13.91 L	80009	124-0381-00
-21	3 <b>43-0003-00</b>			2	CLAMP,LOOP:0.25 ID.PLASTIC ATTACHING PARTS	06915	E4 CLEAR ROUND
-22	211-0578-00			2	SCREW, MACHINE: 6-32 X 0.438, PNH, STL	TK0435	ORDER BY DESCR
-23	210-0457-00			2	NUT.PL.ASSEM WA: 6-32 X 0.312.STL CD PL	78189	511-061800-00
-24	21 <b>0-0863-00</b>				WSHR, LOOP CLAMP:0.187 ID U/W 0.5 W CLP END ATTACHING PARTS	95987	C191
-25	426-1480-01			1	FRAME, CABINET: REAR, 7.0 X FULL RACK ATTACHING PARTS	80009	426-1480-01
-26	21 <b>3-0863-0</b> 0			4	SCREW, TPG, TR: 8-32 X 1.375, TAPTITE, FILH, STL END ATTACHING PARTS	9 <b>3907</b>	ORDER BY DESCR
-27	42 <b>6-2278-00</b>			4	FRAME, SECT: ALLMINUM	80009	426-2278-00