

Model 560-197-10 56000 Data Rate Clock and Distribution System Chassis (Dual AC Power Supplies) Manual

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SECTION ONE

1. FUNCTIONAL DESCRIPTION

1.1 PURPOSE OF EQUIPMENT

The TrueTime Model 560-197-10 Data Rate Clock and Distribution System (DRC) Chassis supports DRC-compatible cards. It provides 17 front slots for function cards, 17 rear slots for input/output cards, and 2 front slots for redundant power supplies. The chassis contains a backplane for inter-card communication, common-signal bussing, and power distribution. These signals are discussed in detail in SECTION THREE below.

This version of the chassis is configured for two AC input Power Supplies. For future reference, it is useful to record card locations in the Card Slot Allocation Table. See specific manual for detailed information on any particular card.

1.1.1 PHYSICAL SPECIFICATIONS

Dimensions:	19"w X 5.22"h X 14"d (48 cm X 13 cm X 36 cm)
Weight:	Approximately 13 pounds (6 kg)

1.1.2 ENVIRONMENTAL SPECIFICATIONS

Operating Temp:	0° to +50°C
Storage Temp:	-40° to +85°C
Humidity:	up to 95% relative, non-condensing
Cooling Mode:	Convection
Altitude:	Sea level to 10,000 ft.

1.1.3 POWER SPECIFICATIONS

See specific Power Supply manual.

1.1.4 CONNECTOR SPECIFICATIONS

Location: Power Entry Module

See specific Power Entry manual.

1.1.5 CARD LOCATION/COMPATIBILITY CONSTRAINTS

See specific manual and/or Card Compatibility Matrix.

SLOT	FRONT	REAR
1 ¹		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18 (19)	Power Supply	Power Entry
20 (21)	Power Supply	Power Entry

1.1.6 CARD SLOT ALLOCATION TABLE

NOTES:

1. Slot 1 is left-most when viewed from front of chassis.

SECTION TWO

2. INSTALLATION AND OPERATION

2.1 REMOVAL AND INSTALLATION

At initial installation, mount chassis to allow for vertical air-flow for convection cooling. Forced-air is not required.

If it becomes necessary to replace any card in the chassis, follow this procedure:

CAUTION: Individual components and assemblies within the chassis are sensitive to static discharge. Whenever installing or removing cards, the person performing the replacement should use proper static discharge procedures, including a standard personnel ESD grounding device (e.g. grounded wrist-strap) and ESD protective packaging.

All cards are hot-swappable. It is not necessary to turn off chassis power during removal or insertion of cards. Refer to specific card manual for the effect of input-signal and/or adjacent card hot-swapping.

Refer to specific manual section for card location constraints and card setup information. (Except for power supply slots, 18 through 21, there are few restrictions on card location.)

To remove card, loosen the captive retaining hardware at the top and bottom of the assembly, then firmly pull on the handle (or on any connector on rear panel adapter cards) at the bottom of the card. Slide the card free of the frame. <u>Refer to the SETUP section for any required switch settings; or, set them identically to the card being replaced</u>. Reinstall the card in the frame by fitting it into the card guides at the top and bottom of the frame and sliding it in slowly, <u>avoiding contact between bottom side of card and adjacent card front panel</u>, until it mates with the connector. Seat card firmly to avoid contact bounce. Secure the retaining screws at the top and bottom of the card assembly.

2.2 OPERATION

Connect system power via rear Power Entry Modules. The chassis is intended to be continuously powered; there are no power switches. See individual manuals for operation of specific cards.

2.3 SETUP

If the chassis is configured with an interface card using INPUT 1 through 8, **SETUP IS REQUIRED**. The termination impedance for INPUT 1 through 8 **MUST** be set to match the characteristics of the signal

source. If the timing signal is sourced by a 50 Ohm driver, the 50 Ohm terminator **MUST** be enabled. If the signal is sourced by a high impedance driver (e.g. 600 Ohm), the 50 Ohm terminator **MUST** be disabled. This is done by enabling or disabling a 50 Ohm terminator using a DIP switch located on the backplane at rear Slot 16.

To enable or disable the 50 Ohm terminator, **DISCONNECT EXTERNAL POWER** to avoid personal injury and equipment damage, then remove the cards in rear Slots 16 and 17. Using a small-bladed 4-inch screwdriver or similar tool, set each DIP switch position ON/OFF according to the following chart:

INPUT	SW1	ON	OFF
1	1	50Ω	>1kΩ
2	2	50Ω	>1kΩ
3	3	50Ω	>1kΩ
4	4	50Ω	>1kΩ
5	5	50Ω	>1kΩ
6	6	50Ω	>1kΩ
7	7	50Ω	>1kΩ
8	8	50Ω	>1kΩ

2.4 PREVENTIVE MAINTENANCE

A systematic preventative maintenance routine can reduce the possibility of a malfunction. This routine should include inspection and cleaning of the instrument.

2.4.1 INSPECTION

Exercise care when handling this equipment. It contains sensitive parts that can be damaged by improper handling. Do not touch connector pin surfaces because of the danger of static discharge, also deposits on contact surfaces can cause corrosion, resulting in equipment damage or failure. Inspect the unit for damaged components, loose or frayed connections, and corrosion on metal surfaces. If damage is found, correct it immediately.

2.4.2 CLEANING

Accumulations of dust and dirt can impair cooling and cause performance degradation. The equipment may be cleaned by the use of a vacuum cleaner or compressed air, and if the problem is bad enough, with a cloth dampened with clean water and a mild detergent. Thoroughly rinse cloth with clean water after washing and wipe off washed areas to remove any residue. Be careful not to get water into switches or potentiometers. Thoroughly dry the equipment with compressed air, and/or time permitting, by air drying.

2.5 CORRECTIVE MAINTENANCE

2.5.1 FRONT/REAR CARDS AND POWER SUPPLIES

Refer to specific manual for information regarding suspect card.

2.5.2 POWER ENTRY MODULE

Power Entry Module trouble-shooting is covered in the specific Power Supply manual.

SECTION THREE

3. THEORY OF OPERATION

3.1 GENERAL INFORMATION

This section contains a detailed description of the chassis implementation. Refer to the schematics in SECTION FOUR.

3.2 HARDWARE DESCRIPTION

The chassis incorporates a backplane for signal/power distribution and two Power Entry Modules for delivering input power to the power supplies. Front Slots 1 through 17 support various function cards. Rear Slots 1 through 17 support various I/O cards. Front Slots 18/19 and 20/21 hold redundant power supplies, each of which receive input power from their respective Power Entry Module.

3.2.1 POWER DISTRIBUTION

Input power is delivered to each power supply, independently, via the Power Entry Module. The Power Entry Module incorporates an input connector and fuse appropriate to the associated Power Supply.

The Power Supply applies filtering and transient protection to the input power. Power is input at a specific voltage level, depending on the type of Power Supply installed; however, it is always delivered to the chassis backplane at -48 VDC. The power supplies are connected to the backplane in a redundant configuration via OR-ing diodes. The -48 VDC power on the backplane is floating with respect to ground (GND). Each card installed in the chassis contains a local, internally-isolated, DC-to-DC converter. The output of each local power supply is referenced to signal GND on each card. Signal GND is distributed throughout the chassis via a ground plane on the backplane. Signal GND and Chassis GND are connected together via a connector on the backplane and also at the I/O card output connectors.

Hot swapping is supported by various features incorporated into the chassis. Of primary concern is the possibility of static-discharge into backplane signal lines during card insertion. This is minimized by extended ground pins located at each end of the backplane connector on front cards, forcing any static build-up to discharge into GND. These also assure that the card has a solid ground reference prior to signal pins contacting the backplane. Static is controlled on rear cards by a partial ground plane that extends to the extreme edge of the card, allowing static to discharge into the chassis during card insertion.

The effects of power supply transients are minimized by the isolation provided by local DC-to-DC converters. Another aspect of hot-swapping concerns CPU bus activity. This is discussed in Paragraph 3.2.2.3.

3.2.2 SIGNAL DISTRIBUTION

There are three categories of signals on the backplane. These are bussed frequency distribution signals, bussed timing distribution signals, and bussed inter-card communication signals.

3.2.2.1. FREQUENCY DISTRIBUTION SIGNALS

The bussed frequency distribution signals are delivered on the backplane via 50 Ohm matched-impedance traces, each terminated with a 50 Ohm resistor. These are always driven by cards located at or near Slot 1, since the terminator is located at Slot 17. These three signals, REF A, REF B, and REF C (labeled FREQ A, B, and C on the schematic), are used to deliver reference frequencies to each slot. All cards that drive REF A, B, or C are AC-coupled to the backplane. The signals on REF A, B, and C are 1-5 Vpp, squarewave, or sinewave.

3.2.2.2. TIMING DISTRIBUTION SIGNALS

The bussed timing signals, INPUTS 1 through 8, are delivered on the backplane via 50 Ohm matched-impedance traces. Each can be terminated with a 50 Ohm resistor by enabling sections of SW1. These are always driven via cards located at or near Slot 1, since the terminator is located at Slot 17.

The characteristics of the signal on INPUT 1 though 8 vary according to the requirements of installed card(s) using that particular signal.

3.2.2.3. INTER-CARD COMMUNICATION SIGNALS

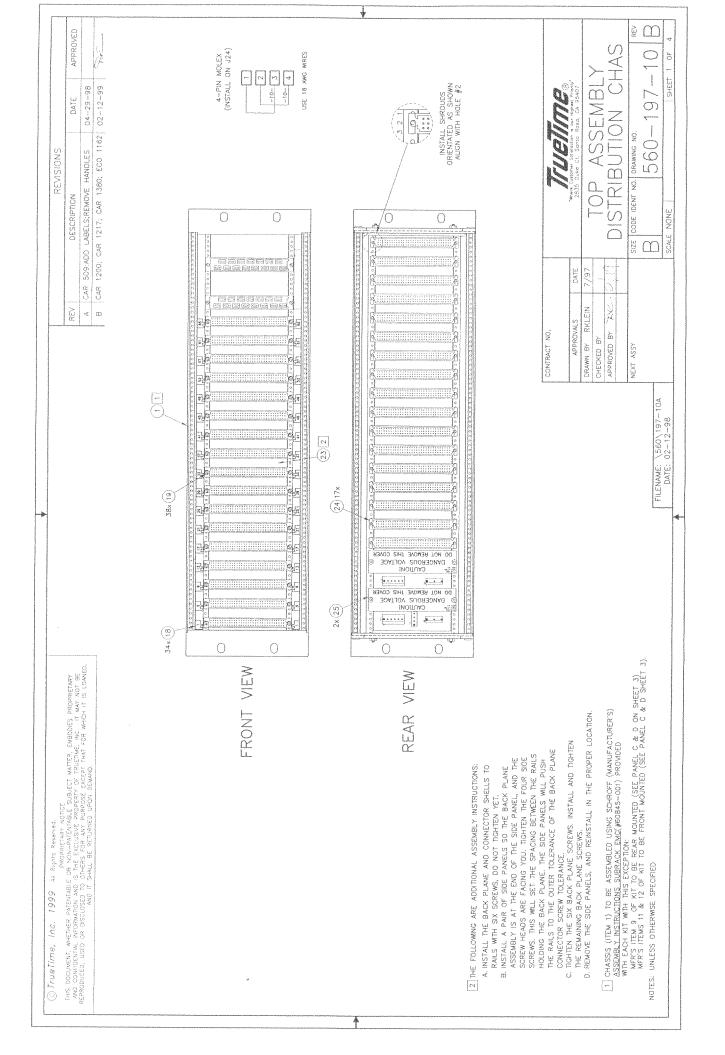
The bussed inter-card communication signals include Fault, Data, Address, and Control signals used by the Fault Monitor CPU. These signals are bussed to every slot. There are 19 Fault lines. These are outputs from function-cards and inputs to the CPU. Pin C25 at each slot is used for the Fault output. Pin C25 is connected to the appropriate Fault line at each slot, such that each function-card automatically drives the proper bussed Fault signal, which in turn is available to the CPU at any slot. Data, Address, and Control data-bus signals are used by the CPU to communicate with various function cards. The Control signals include STROBE, DIRECTION, and ENABLE. STROBE is used to gate read/write cycles. DIRECTION, which has a pulldown resistor on the backplane, must driven high by the CPU to generate a write cycle to a function card. ENABLE, which has a pull-down resistor and capacitor on the backplane, must charge up to a Logic 1 level from local CPU +5V before any function card will recognize a write-cycle. All signals are TTL-level. The Fault lines have pull-ups on the Fault Monitor CPU, which forces unused Fault lines to the inactive state.

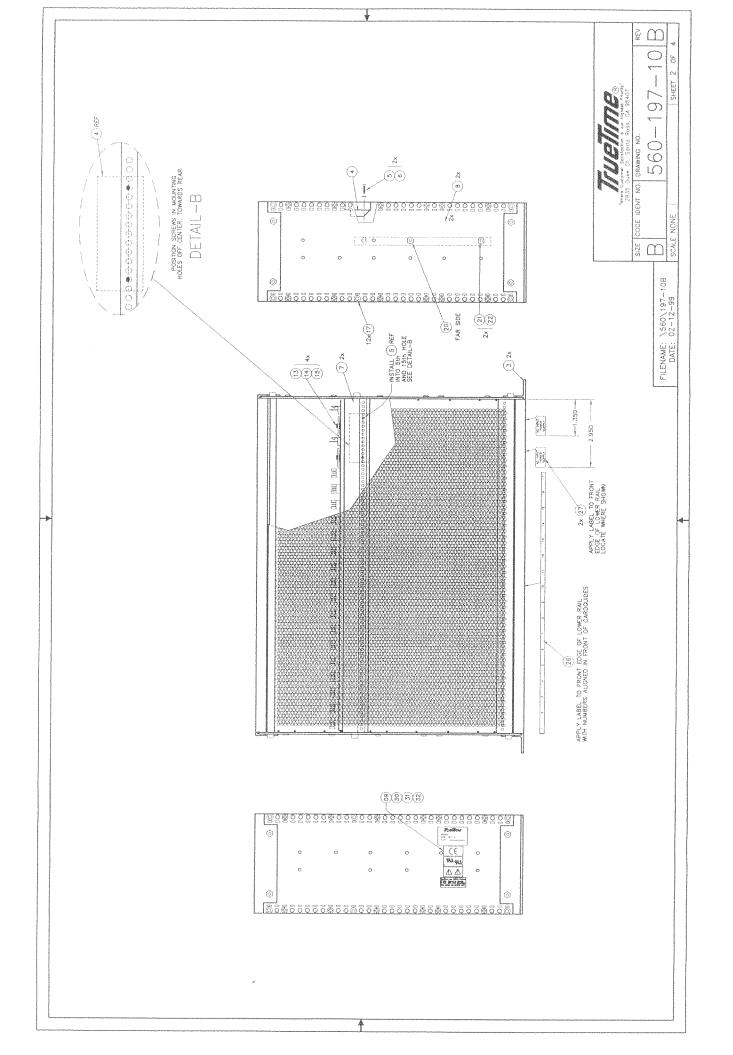
Hot-swapping of the CPU is supported for insertion by the RC time-constant built into ENABLE. It is supported during removal by the direct pull-down on DIRECTION. Note that data-bus hot-swapping effects are important only for write-cycles. Hot-swapping of the function cards is supported by the bus architecture: the Data lines are never driven by the function cards. This eliminates the possibility of function card output buffers interfering with bus traffic during power-up. Also, all bussed input lines are isolated with series resistors to minimize bus-loading during power-up. For read-cycles the Data lines become additional address bits. All read-data is transferred to the CPU, 1 bit at a time, via the private Fault line. When there is no bus activity, the Fault line represents the composite fault status of each function card.

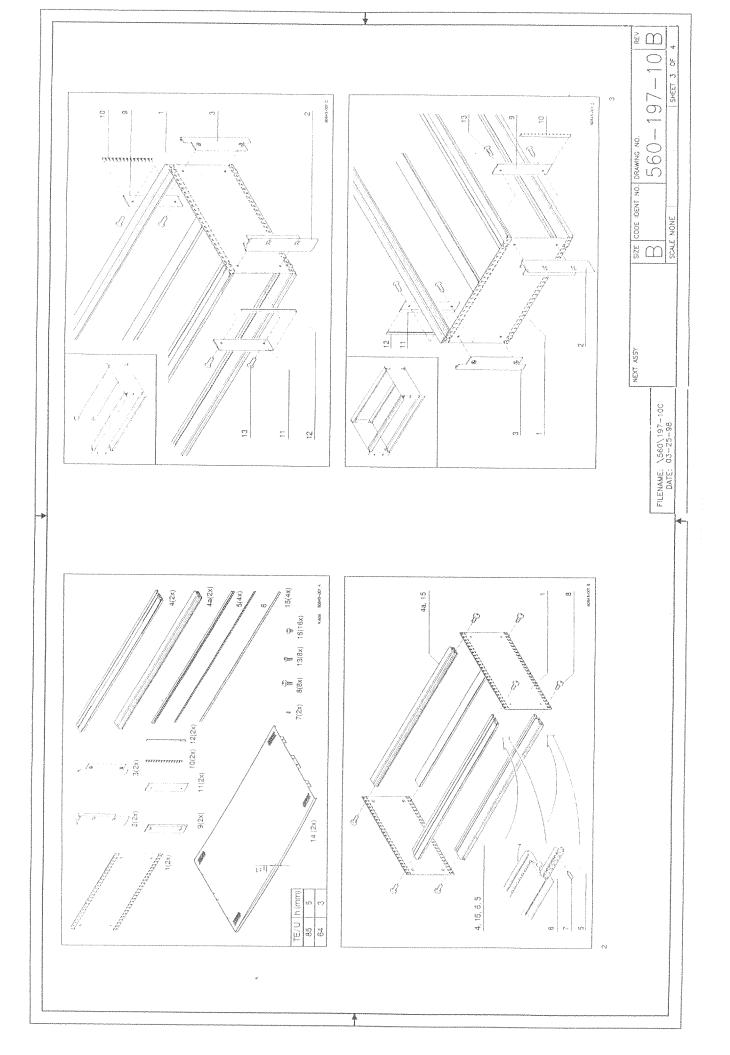
SECTION FOUR

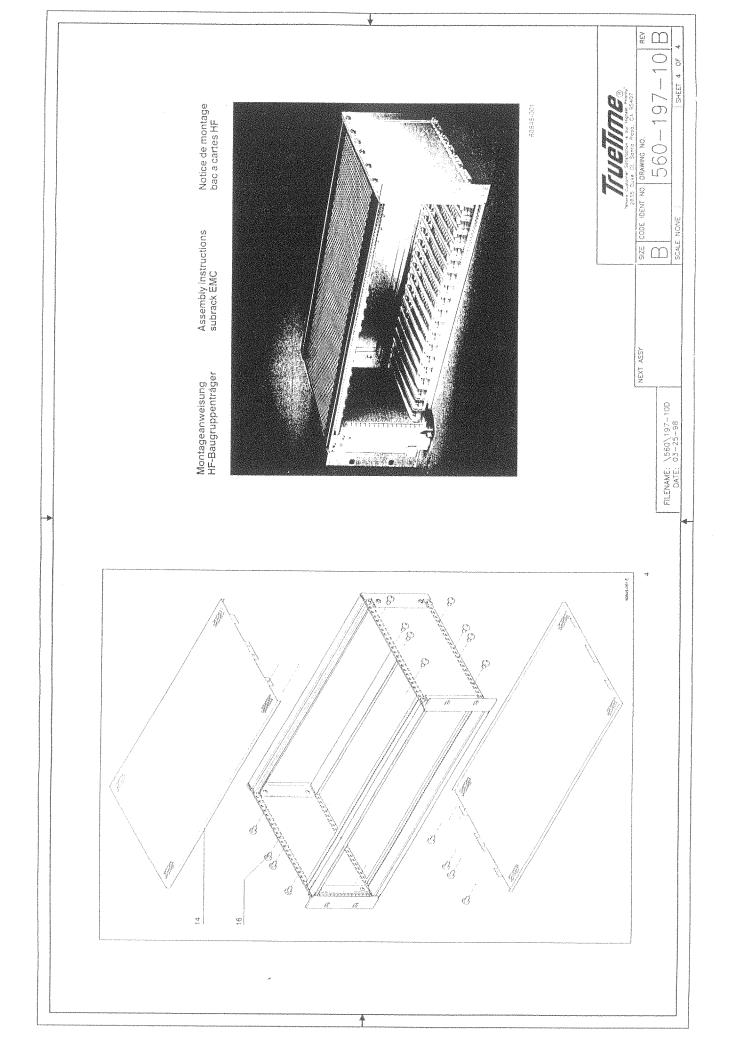
4. DETAILED DRAWINGS

4.1 560-197-10 DETAILED DRAWINGS / BILL OF MATERIALS









MAX * BILL OF MATERIALS * SINGLE-LEVEL EXPLOSION BY PART IDENTIFIER W/REFERENCE

PART IDENTIFIER DESCRIPTION 1 DESCRIPTION 2 DATE ECN # DTV/ASSY UOW LVL REFERENCE DESCRIPTION 560-197-10 SIGNAL DISTRIB CHASSIS EA EA EA EA 0000-APPROVAL PARTS LIST APPROVAL 000000 1.0000 EA BTO-197-10 SIGNAL DISTRIB CHASSIS 2010-APPROVAL PARTS LIST APPROVAL 000000 1.0000 EA BTO-197-10 BECKTEPICE BTO-197-10 BECKTEPICE BTO-197-10 BECKTEPICE BTO-197-10				EFF			REV	
COUD-APPROVAL 0000-PL PARTS LIST APPROVAL PARTS LIST REV LEVEL 000000 COUDS 000000 1.0003 1.0000 EA PL/21-931 0000-PL 0000-PL 0000-PL 0000-PL 1-0033 RAIL MONIZONTAL REAR RAIL MONIZONTAL REAR SCHROFF 00017-016 SCHROFF 00017-016 D000000 2.0000 EA 580-187-10 REV B 212-016 GUIDE RAIL SCHROFF 00017-016 SCHROFF 00017-016 D000000 2.0000 EA 01 223-010- BARACKI MOD IOROSO001 FAB MOD REFERENCE DW BARACKI MOD IOROSO001 FAB MOD REFERENCE DW 000000 0.0000 EA 01 223-010-8 SIDE PANEL MOD IOROSO001 FAB MOD REFERENCE DW 000000 0.0000 EA 08 223-011-8 RACKI MOUNT BRACKIZS SCHROFF 0537-945 D000000 2.0000 EA 03 241-005-003 SCREW PH PH SS 6-32X 3/2 BUY/USE ONLY 100 DEEREE 000000 2.0000 EA 05 241-006-003 SCREW FM FM SS 6-32X 3/2 BUY/USE ONLY 100 DEEREE 000000 2.0000 EA 13 243-007 SCREW FM FM SS 6-32X 3/2 BUY/USE ONLY 100 DEEREE 000000 2.0000 EA 15 243-007 SCRE	PART IDENTIFIE	R DESCRIPTION 1	DESCRIPTION 2	DATE	ECN #	QTY/ASSY		
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223-010-S SIDE PANEL MOD (DRCSG000) FAB MCD REFERENCE DWG 000000 2.0000 EA 08 223-011 RACK MOUNT BRACKETS SCHROFF 3037-945 000000 4.0000 EA 03 240-002-003 SCREW PH PN SS 2-56X3/A AROW 020MMP 000000 2.0000 EA 05 241-006-003 SCREW PH PN SS 6-32X 3/8 BUY/USE ONLY 100 DEGREE 000000 2.0000 EA 15 249-007 SCREW SK CP MSK12 SCHROFF 21100-148 000000 12.0000 EA 15 249-MSX12 SCREW SK ZP MSK12 SCHROFF 21100-148 000000 2.0000 EA 15 251-006 NUT KEP SS 6-32.250 MEX KEPNUT SMALL PATERN 000000 2.0000 EA 05 254-002 WSHR SPLIT #2 #2 LOCKWASHER 000000 2.0000 EA 05 325-002 CORD POWER BELDEN 17250 000000 2.0000 EA SHIPPING KIT 332-002 CORD POWER BELDEN 17250 000000 2.0000 EA SHIPPING KIT 33	223-010-8	BRACKET MOD (DRC56000)	FAB MOD REFERENCE DWG					
223-011 RACK MOUNT BRACKETS SCHROFF 30837-945 000000 2.0000 EA 03 223-144 NUT W2.5 SCRROFF 21100-144 000000 4.0000 EA 13 240-022-003 SCREW PH FN SS 6-32X 3/8 ARGW 0206MPP 000000 2.0000 EA 13 241-006-003 SCREW PH FN SS 6-32X 3/8 BUV/USE ONLY 100 DEGREE 000000 2.0000 EA 21 243-007 SCREW SH CH ZM M2.5X12 SCHROFF 21100-457 000000 2.0000 EA 19 249-MSX12 SCREW SK CP MSX12 SCHROFF 21100-457 000000 2.0000 EA 17 251-006 NUT KEP SS 6-52.20 H2X KEPT MSXLL PATTERN 000000 2.0000 EA 15 254-002 WSHR SPLIT #2 #2 LOCKMASHER 000000 2.0000 EA 14 315-018-010 WITRE 184WG PVC INS BLACK 1/439 000000 2.0000 EA SHIPPING KIT 315-018-010 FMSE AL 259 000000 2.0000 EA SHIPPING KIT	223-010-S	SIDE PANEL MOD (DRC56000)	FAB MOD REFERENCE DWG					
2231-144 NUT W2.5 SCHROFF #21100-144 000000 4.0000 EA 13 240-002-003 SCREW PH PN SS 2-56X3/8 AROW 0206MPP 000000 2.0000 EA 05 241-006-003 SCREW PH FH SS 6-32X 3/8 BUY/USE ONLY 100 DEGREE 000000 2.0000 EA 11 243-007 SCREW SH CH ZN M2.5X12 SCHROFF 21100-457 000000 12.0000 EA 19 243-016 NUT KEP SS 6-32 250 HEX KEPNUT SMALL PATTERN 000000 2.0000 EA 15 254-02 WSHR SPLIT #4 SS STAINLESS 000000 2.0000 EA 15 254-02 WSHR SPLIT #4 XS STAINLESS 000000 2.0000 EA 16 254-02 WSHR SPLIT #1 XS STAINLESS 000000 2.0000 EA 16 254-02 WSHR SPLIT #4 XS LACK 1429 000000 2.0000 EA 14 315-0360 CONP POWER BELOEN 17250 000000 2.0000 EA SHIPPING KIT 322-002 CORD POWER BELOEN								
241-006-003 SCREW PH FH SS 6-32X 3/S BUY/USE ONLY 100 DEGREE 000000 2.0000 EA 21 243-007 SCREW SK HC TX W2.5X12 SCHROFF 21100-148 000000 38.0000 EA 19 249-M5X12 SCREW SK ZP M5X12 SCHROFF 21100-457 000000 2.0000 EA 17 251-005 NUT KEP SS 6-32X 3/S BUY/USE SCHROFF 21100-457 000000 2.0000 EA 22 254-312 WSHR SPLIT #4 SS STAINLESS 000000 4.0000 EA 15 254-002 WSHR FLAT NYL 4 1/16 1/4INCH 0D 000000 2.0000 EA 06 215-018-010 WIRF ELAT NYL 4 1/16 1/4INCH 0D 000000 2.0000 EA SHIPPING KIT 315-018-010 WIRF ELAT NYL 4 1/16 1/4INCH 0D 000000 2.0000 EA SHIPPING KIT 332-02 CORD POWER BELDEN 17250 000000 2.0000 EA SHIPPING KIT 385-035 CONN SURCUD FOR 95-P CONN AMP 53574-1 000000 1.0000 EA 24 400-031 LABEL,POWER SUP SLITS AC IAPUT 000000 1.	223-144	NUT M2.5	SCHROFF #21100-144	000000				
241-006-003 SCREW PH FH SS 6-32X 3/S BUY/USE ONLY 100 DEGREE 000000 2.0000 EA 21 243-007 SCREW SK HC TX W2.5X12 SCHROFF 21100-148 000000 38.0000 EA 19 249-M5X12 SCREW SK ZP M5X12 SCHROFF 21100-457 000000 2.0000 EA 17 251-005 NUT KEP SS 6-32X 3/S BUY/USE SCHROFF 21100-457 000000 2.0000 EA 22 254-312 WSHR SPLIT #4 SS STAINLESS 000000 4.0000 EA 15 254-002 WSHR FLAT NYL 4 1/16 1/4INCH 0D 000000 2.0000 EA 06 215-018-010 WIRF ELAT NYL 4 1/16 1/4INCH 0D 000000 2.0000 EA SHIPPING KIT 315-018-010 WIRF ELAT NYL 4 1/16 1/4INCH 0D 000000 2.0000 EA SHIPPING KIT 332-02 CORD POWER BELDEN 17250 000000 2.0000 EA SHIPPING KIT 385-035 CONN SURCUD FOR 95-P CONN AMP 53574-1 000000 1.0000 EA 24 400-031 LABEL,POWER SUP SLITS AC IAPUT 000000 1.	240-002-003	SCREW PH PN SS 2-56X3/8	AROW 0206MPP	000000				
249-007 SCREW SH CH ZN M2.5X12 SCHROFF 21100-487 000000 38.0000 EA 19 243-M5X12 SCREW SK ZP M5X12 SCHROFF 21100-457 000000 2.0000 EA 17 251-006 NUT KEP SS 6-32.250 HEK KEPNUT SMALL PATTERN 000000 2.0000 EA 12 254-002 WSHR SPLIT #4 SS STAINLESS 000000 4.0000 EA 14 254-002 WSHR SPLIT #2 #2 LOCKWASHER 000000 2.0000 EA 14 315-018-010 WIRE 18AWG PVC INS BLACK 1429 000000 2.0000 EA SHIPPING KIT 332-002 CORD POWER BELDEN 17250 000000 2.0000 EA SHIPPING KIT 385-035 CONN SHROUD FOR 95-P CONN AMP 535074-1 000000 1.0000 EA 24 400-033 LABEL, DRC SLOT NUMBERS MADE FROM 400-038 000000 1.0000 EA 31 400-042 LABEL, DANGER/MANNAL MADE FROM 400-031 000000 1.0000 EA 31 400-051 LABEL, RC C (55K) MADE FROM 400-031 000000 1.0000 <td< td=""><td>241-006-003</td><td>SCREW PH FH SS 6-32X 3/8</td><td>BUY/USE ONLY 100 DEGREE</td><td>000000</td><td></td><td></td><td></td><td></td></td<>	241-006-003	SCREW PH FH SS 6-32X 3/8	BUY/USE ONLY 100 DEGREE	000000				
249-M5X12 SCREW SK ZP M5X12 SCHROFF 2:100-457 000000 12.0000 EA 17 251-005 NUT KEP SS G-32.250 HEX KEPNUT SMALL PATTERN 000000 2.0000 EA 22 254-312 WSHR SPLIT #4 SS STAINESS 000000 4.0000 EA 15 254-02 WSHR SPLIT #2 #2 LOCKWASHER 000000 4.0000 EA 14 315-018-010 WIRE 18AWG PVC INS BLACK 1429 000000 2.0000 EA 14 315-018-010 WIRE 18AWG PVC INS BLACK 1429 000000 2.0000 EA SHIPPING KIT 322-002 CORD POWER BELDEN 17250 000000 2.0000 EA SHIPPING KIT 385-095 CONN SHROUD FOR 96-P CONN AMP 535074-1 000000 17.0000 EA 24 400-031 LABEL, DRC SLOT NUMBERS MADE FROM 400-038 000000 0.0200 EA 25 400-042 LABEL, DRU MURL MADE FROM 400-031 000000 1.0000 EA 31 400-044	249-007	SCREW SH CH ZN M2.5X12	SCHROFF 21100-148	000000				
251-006 NUT KEP SS 6-32 .250 HEX KEPNUT SMALL PATTERN 000000 2.0000 EA 22 254312 WSHR SPLIT #4 SS STAINLESS 000000 4.0000 EA 15 254-002 WSHR SPLIT #2 #2 LOCKWASHER 000000 2.0000 EA 06 269-004 WSHR FLAT NYL 4 1/16 1/4INCH OD 000000 4.0000 EA 14 315-018-010 WSHR FLAT NYL 4 1/16 1/4INCH OD 000000 2.0000 EA SEE WIRING 312-02 CORD POWER BELDEN 17250 000000 2.0000 EA SHIPPING KIT 363-2.0 FUSE 2A 250V 3AG SB LITTELFUSE 313002 000000 2.0000 EA 24 400-033 LABEL, DRC SLOT NUMBERS MADE FROM 400-038 000000 0.0200 EA 26 400-042 LABEL, DANGER/MANUAL MADE FROM 400-031 000000 1.0000 EA 31 400-044 LABEL, MANUAL MADE FROM 400-031 000000 1.0000 EA 31 4	249-M5X12	SCREW SK ZP M5X12	SCHROFF 21100-457	000000				
269-004 WSHR FLAT NYL 4 1/16 1/4INCH OD 000000 4.0000 EA 14 315-018-010 WIRE 18AWG PVC INS BLACK 1429 000000 0.3000 FT SEE WIRING 332-002 CORD POWER BELDEN 17250 000000 2.0000 EA SHIPPING KIT 383-2.0 FUSE 2A 250V 3AG SB LITTELFUSE 313002 000000 2.0000 EA SHIPPING KIT 385-095 CONN SHROUD FOR 96-P CONN AMP 535074-1 000000 17.0000 EA 24 400-033 LABEL,DRC SLOT NUMBERS MADE FROM 400-038 000000 0.0200 EA 25 400-042 LABEL,DANGER/MANUAL MADE FROM 400-040 000000 1.0000 EA 31 400-048 LABEL,CE SYMBOL MADE FROM 400-031 000000 1.0000 EA 31 400-051 LABEL,FCC (56K) MADE FROM 400-030 000000 1.0000 EA 30 402-007T PIN 18-24 AWG MOLEX 08-52-0113 000000 1.0000 EA SEE WIRING 402-0123 GUIDE RAIL FOR DRC P/S FAB 0000000 1.00000	251 0AC	NUT VER OR A AA AFA HEV						
269-004 WSHR FLAT NYL 4 1/16 1/4INCH OD 000000 4.0000 EA 14 315-018-010 WIRE 18AWG PVC INS BLACK 1429 000000 0.3000 FT SEE WIRING 332-002 CORD POWER BELDEN 17250 000000 2.0000 EA SHIPPING KIT 383-2.0 FUSE 2A 250V 3AG SB LITTELFUSE 313002 000000 2.0000 EA SHIPPING KIT 385-095 CONN SHROUD FOR 96-P CONN AMP 535074-1 000000 17.0000 EA 24 400-033 LABEL,DRC SLOT NUMBERS MADE FROM 400-038 000000 0.0200 EA 25 400-042 LABEL,DANGER/MANUAL MADE FROM 400-040 000000 1.0000 EA 31 400-048 LABEL,CE SYMBOL MADE FROM 400-031 000000 1.0000 EA 31 400-051 LABEL,FCC (56K) MADE FROM 400-030 000000 1.0000 EA 30 402-007T PIN 18-24 AWG MOLEX 08-52-0113 000000 1.0000 EA SEE WIRING 402-0123 GUIDE RAIL FOR DRC P/S FAB 0000000 1.00000	254312	WSHR SPLIT #4 SS	STAINLESS	000000				
269-004 WSHR FLAT NYL 4 1/16 1/4INCH OD 000000 4.0000 EA 14 315-018-010 WIRE 18AWG PVC INS BLACK 1429 000000 0.3000 FT SEE WIRING 332-002 CORD POWER BELDEN 17250 000000 2.0000 EA SHIPPING KIT 383-2.0 FUSE 2A 250V 3AG SB LITTELFUSE 313002 000000 2.0000 EA SHIPPING KIT 385-095 CONN SHROUD FOR 96-P CONN AMP 535074-1 000000 17.0000 EA 24 400-033 LABEL,DRC SLOT NUMBERS MADE FROM 400-038 000000 0.0200 EA 25 400-042 LABEL,DANGER/MANUAL MADE FROM 400-040 000000 1.0000 EA 31 400-048 LABEL,CE SYMBOL MADE FROM 400-031 000000 1.0000 EA 31 400-051 LABEL,FCC (56K) MADE FROM 400-030 000000 1.0000 EA 30 402-007T PIN 18-24 AWG MOLEX 08-52-0113 000000 1.0000 EA SEE WIRING 402-0123 GUIDE RAIL FOR DRC P/S FAB 0000000 1.00000	254-002	WSHR SPLIT #2	#2 LOCKWASHER	000000				
400-051 LABEL, CE SYMBOL MADE FROM 400-031 000000 1.0000 EA 30 400-064 LABEL, FCC (56K) MADE FROM 400-030 000000 1.0000 EA 09 402-007T PIN 18-24 AWG MOLEX 08-52-0113 000000 4.0000 EA SEE WIRING 403-004T CONN 4-P MOLEX 26-03-4041 000000 1.0000 EA SEE WIRING 560-1223 GUIDE RAIL FOR DRC P/S FAB 000000 1.0000 EA 20 560-1225 CHASSIS KEY DRC P/S FAB 000000 1.0000 EA 24 560-2188 PCB SHIELD (UL) FAB 000000 2.0000 EA 25 560-5165 ASSY BACKPLANE (DISTRB) MADE FROM 560-2165 000000 1.0000 EA 23 .A LABOR ASSEMBLY COST HRS 000000 0 EA 23	269-004	WSHR FLAT NYL 4 1/16	1/4INCH OD	000000				
400-051 LABEL, CE SYMBOL MADE FROM 400-031 000000 1.0000 EA 30 400-064 LABEL, FCC (56K) MADE FROM 400-030 000000 1.0000 EA 09 402-007T PIN 18-24 AWG MOLEX 08-52-0113 000000 4.0000 EA SEE WIRING 403-004T CONN 4-P MOLEX 26-03-4041 000000 1.0000 EA SEE WIRING 560-1223 GUIDE RAIL FOR DRC P/S FAB 000000 1.0000 EA 20 560-1225 CHASSIS KEY DRC P/S FAB 000000 1.0000 EA 24 560-2188 PCB SHIELD (UL) FAB 000000 2.0000 EA 25 560-5165 ASSY BACKPLANE (DISTRB) MADE FROM 560-2165 000000 1.0000 EA 23 .A LABOR ASSEMBLY COST HRS 000000 0 EA 23	315-018-010	WIRE 18AWG PVC INS BLACK	1429	000000				
400-051 LABEL, CE SYMBOL MADE FROM 400-031 000000 1.0000 EA 30 400-064 LABEL, FCC (56K) MADE FROM 400-030 000000 1.0000 EA 09 402-007T PIN 18-24 AWG MOLEX 08-52-0113 000000 4.0000 EA SEE WIRING 403-004T CONN 4-P MOLEX 26-03-4041 000000 1.0000 EA SEE WIRING 560-1223 GUIDE RAIL FOR DRC P/S FAB 000000 1.0000 EA 20 560-1225 CHASSIS KEY DRC P/S FAB 000000 1.0000 EA 24 560-2188 PCB SHIELD (UL) FAB 000000 2.0000 EA 25 560-5165 ASSY BACKPLANE (DISTRB) MADE FROM 560-2165 000000 1.0000 EA 23 .A LABOR ASSEMBLY COST HRS 000000 0 EA 23	332-002	CORD POWER	BELDEN 17250	000000				
400-051 LABEL, CE SYMBOL MADE FROM 400-031 000000 1.0000 EA 30 400-064 LABEL, FCC (56K) MADE FROM 400-030 000000 1.0000 EA 09 402-007T PIN 18-24 AWG MOLEX 08-52-0113 000000 4.0000 EA SEE WIRING 403-004T CONN 4-P MOLEX 26-03-4041 000000 1.0000 EA SEE WIRING 560-1223 GUIDE RAIL FOR DRC P/S FAB 000000 1.0000 EA 20 560-1225 CHASSIS KEY DRC P/S FAB 000000 1.0000 EA 24 560-2188 PCB SHIELD (UL) FAB 000000 2.0000 EA 25 560-5165 ASSY BACKPLANE (DISTRB) MADE FROM 560-2165 000000 1.0000 EA 23 .A LABOR ASSEMBLY COST HRS 000000 0 EA 23	363-2.0	FUSE 2A 250V 3AG SB	LITTELFUSE 313002	000000				
400-051 LABEL, CE SYMBOL MADE FROM 400-031 000000 1.0000 EA 30 400-064 LABEL, FCC (56K) MADE FROM 400-030 000000 1.0000 EA 09 402-007T PIN 18-24 AWG MOLEX 08-52-0113 000000 4.0000 EA SEE WIRING 403-004T CONN 4-P MOLEX 26-03-4041 000000 1.0000 EA SEE WIRING 560-1223 GUIDE RAIL FOR DRC P/S FAB 000000 1.0000 EA 20 560-1225 CHASSIS KEY DRC P/S FAB 000000 1.0000 EA 24 560-2188 PCB SHIELD (UL) FAB 000000 2.0000 EA 25 560-5165 ASSY BACKPLANE (DISTRB) MADE FROM 560-2165 000000 1.0000 EA 23 .A LABOR ASSEMBLY COST HRS 000000 0 EA 23	385-095	CONN SHROUD FOR 96-P CONN	AMP 535074-1	000000				
400-051 LABEL, CE SYMBOL MADE FROM 400-031 000000 1.0000 EA 30 400-064 LABEL, FCC (56K) MADE FROM 400-030 000000 1.0000 EA 09 402-007T PIN 18-24 AWG MOLEX 08-52-0113 000000 4.0000 EA SEE WIRING 403-004T CONN 4-P MOLEX 26-03-4041 000000 1.0000 EA SEE WIRING 560-1223 GUIDE RAIL FOR DRC P/S FAB 000000 1.0000 EA 20 560-1225 CHASSIS KEY DRC P/S FAB 000000 1.0000 EA 24 560-2188 PCB SHIELD (UL) FAB 000000 2.0000 EA 25 560-5165 ASSY BACKPLANE (DISTRB) MADE FROM 560-2165 000000 1.0000 EA 23 .A LABOR ASSEMBLY COST HRS 000000 0 EA 23	400-033	LABEL, DRC SLOT NUMBERS	MADE FROM 400-038	000000				
400-051 LABEL, CE SYMBOL MADE FROM 400-031 000000 1.0000 EA 30 400-064 LABEL, FCC (56K) MADE FROM 400-030 000000 1.0000 EA 09 402-007T PIN 18-24 AWG MOLEX 08-52-0113 000000 4.0000 EA SEE WIRING 403-004T CONN 4-P MOLEX 26-03-4041 000000 1.0000 EA SEE WIRING 560-1223 GUIDE RAIL FOR DRC P/S FAB 000000 1.0000 EA 20 560-1225 CHASSIS KEY DRC P/S FAB 000000 1.0000 EA 24 560-2188 PCB SHIELD (UL) FAB 000000 2.0000 EA 25 560-5165 ASSY BACKPLANE (DISTRB) MADE FROM 560-2165 000000 1.0000 EA 23 .A LABOR ASSEMBLY COST HRS 000000 0 EA 23	400-034	LABEL.POWER SUP SLOTS	AC INPUT	000000				
400-051 LABEL, CE SYMBOL MADE FROM 400-031 000000 1.0000 EA 30 400-064 LABEL, FCC (56K) MADE FROM 400-030 000000 1.0000 EA 09 402-007T PIN 18-24 AWG MOLEX 08-52-0113 000000 4.0000 EA SEE WIRING 403-004T CONN 4-P MOLEX 26-03-4041 000000 1.0000 EA SEE WIRING 560-1223 GUIDE RAIL FOR DRC P/S FAB 000000 1.0000 EA 20 560-1225 CHASSIS KEY DRC P/S FAB 000000 1.0000 EA 24 560-2188 PCB SHIELD (UL) FAB 000000 2.0000 EA 25 560-5165 ASSY BACKPLANE (DISTRB) MADE FROM 560-2165 000000 1.0000 EA 23 .A LABOR ASSEMBLY COST HRS 000000 0 EA 23	400-042	LABEL, DANGER/MANUAL	MADE FROM 400-040	000000				
402-007T PIN 18-24 AWG MOLEX 08-52-0113 000000 4.0000 EA SEE WIRING 403-004T CONN 4-P MOLEX 26-03-4041 000000 1.0000 EA SEE WIRING 560-1223 GUIDE RAIL FOR DRC P/S FAB 000000 1.0000 EA 20 560-1225 CHASSIS KEY DRC P/S FAB 000000 1.0000 EA 04 560-2188 PCB SHIELD (UL) FAB 000000 2.0000 EA 25 560-5165 ASSY BACKPLANE (DISTRB) MADE FROM 560-2165 000000 1.0000 EA 23 .A LABOR ASSEMBLY COST HRS 000000 0 EA 0	400-048	LABEL, UR/CUR SYMBOLS	MADE FROM 400-031	000000				
402-007T PIN 18-24 AWG MOLEX 08-52-0113 000000 4.0000 EA SEE WIRING 403-004T CONN 4-P MOLEX 26-03-4041 000000 1.0000 EA SEE WIRING 560-1223 GUIDE RAIL FOR DRC P/S FAB 000000 1.0000 EA 20 560-1225 CHASSIS KEY DRC P/S FAB 000000 1.0000 EA 04 560-2188 PCB SHIELD (UL) FAB 000000 2.0000 EA 25 560-5165 ASSY BACKPLANE (DISTRB) MADE FROM 560-2165 000000 1.0000 EA 23 .A LABOR ASSEMBLY COST HRS 000000 0 EA 0	400-051	LABEL,CE SYMBOL	MADE FROM 400-031	000000				
403-004T CONN 4-P MOLEX 26-03-4041 000000 1.0000 EA SEE WIRING 560-1223 GUIDE RAIL FOR DRC P/S FAB 000000 1.0000 EA 20 560-1225 CHASSIS KEY DRC P/S FAB 000000 1.0000 EA 04 560-2188 PCB SHIELD (UL) FAB 000000 2.0000 EA 25 560-5165 ASSY BACKPLANE (DISTRB) MADE FROM 560-2165 000000 1.0000 EA 23 .A LABOR ASSEMBLY COST HRS 000000 0 EA	400-064	LABEL,FCC (56K)	MADE FROM 400-030					
403-004T CONN 4-P MOLEX 26-03-4041 000000 1.0000 EA SEE WIRING 560-1223 GUIDE RAIL FOR DRC P/S FAB 000000 1.0000 EA 20 560-1225 CHASSIS KEY DRC P/S FAB 000000 1.0000 EA 04 560-2188 PCB SHIELD (UL) FAB 000000 2.0000 EA 25 560-5165 ASSY BACKPLANE (DISTRB) MADE FROM 560-2165 000000 1.0000 EA 23 .A LABOR ASSEMBLY COST HRS 000000 0 EA	402-007T	PIN 18-24 AWG	MOLEX 08-52-0113	000000				
560-5165 ASSY BACKPLANE (DISTRB) MADE FROM 560-2165 000000 1.0000 EA 23 .A LABOR ASSEMBLY COST HRS 000000 0 EA		CONN 4-P	MOLEX 26-03-4041	000000				
560-5165 ASSY BACKPLANE (DISTRB) MADE FROM 560-2165 000000 1.0000 EA 23 .A LABOR ASSEMBLY COST HRS 000000 0 EA	560-1223	GUIDE RAIL FOR DRC P/S	FAB	000000				
560-5165 ASSY BACKPLANE (DISTRB) MADE FROM 560-2165 000000 1.0000 EA 23 .A LABOR ASSEMBLY COST HRS 000000 0 EA	560-1225	CHASSIS KEY DRC P/S	FAB	000000				
560-5165 ASSY BACKPLANE (DISTRB) MADE FROM 560-2165 000000 1.0000 EA 23 .A LABOR ASSEMBLY COST HRS 000000 0 EA	560-2188	PCB SHIELD (UL)	FAB	000000				•
A LABOR ASSEMBLY COST HRS 000000 0 EA	560-5165	ASSY BACKPLANE (DISTRB)	MADE FROM 560-2165	000000				
	LA	LABOR ASSEMBLY COST HRS						
	LT	LABOR TEST COST HOURS		000000			-	