



TRI-MAG, Inc.
® *your* POWER Specialists

1601 N. CLANCY CT. • VISALIA, CA 93291
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590 – Passive Backplane Version

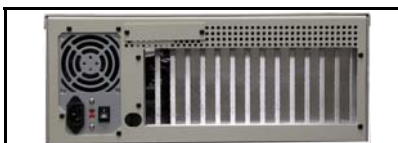
Industrial Computer Chassis for Passive Backplane 8 to 14 Slots

FEATURES

- Made in the USA
- Modular Design
- Rack & Desk Models
- Less Than 17.5" Deep
- Rack Version Meets EIA RS-310C
- RUGGED, Heavy gage, Aluminum Construction
- Excellent Cooling
- TWO Fans Standard
- Intake Air Filter
- Positive Air Pressure
- Accepts ATX Mother Boards Cards, ISA,PISA,PCI 32 BIT
- ISA/PCI Card Hold Down Bar
- Accepts up to (3x), 5¼ Drives, (8 Slot Front Card Cage Version)
- Accepts up to (2x), 5¼,31/2 Drives, (12 Slot Front Card Cage Version)
- 250~450 Watt Switching Supply, UL, TUV, CE, Field Replaceable
- 115/230 and DC input Operation
- Reasonably Priced

OPTIONS/ACCESSORIES

- 8 or 12 Slot Front Card Cage
- 8,14 Slot Rear Panel & Backplane Available
- 115/230VAC Input 300W, 400W, or Hot Swap Supply
- +12, +24 or -48VDC Input,250W or 300W Supply
- Black or Off White Paint
- Locking Drive Door and 2 Stage Air Filter
- Rack Slides
- Drive Bay Cover Plates
- Semi Custom Modification By Using Wide Range of Stock Modular Panels
- Custom Modifications



DESCRIPTION

590 is a high quality, modular PC chassis for Passive Backplane type computers. It provides a rugged, well-cooled enclosure for server, telecom, factory automation and other industrial applications.

590 features simple, sturdy mounting for drives and Backplanes. Backplane mounting brackets are removable from the chassis for easy system assembly.

Two front card cage version are available. An 8 slot version maximizes disk drive capacity. A 12 slot version provides front support for more long length cards. A 12 slot rear Modular Panel is available to accommodate 12 slot backplanes, contact factory

An adjustable card hold down clamp keeps ISA/PISA/PCI daughter boards firmly in position.

Two fans, working in push-pull, move large quantities of air through the chassis to provide cooling. Incoming air is filtered by a large, easily accessible, washable filter element. Positive pressure is maintained in the chassis to reduce dust incursion.

High quality, agency recognized, field replaceable power supplies are used, the standard supply is rated 200W. 350W, 450W Hot Swap AC input supplies along with +12,+24 and -48 VDC input supplies are optional.

CUSTOMIZING

See Inside Back Cover for a Customizing guide.

The standard chassis shown in the accompanying photos and drawings will fill a large number of applications. However, the modular 590 design allows fast, easy, low cost modification to customer requirements by using our library of Modular Panels.

Stock Modular Panels are shown on pages 12 through 14. Accessories are shown on Page 7.

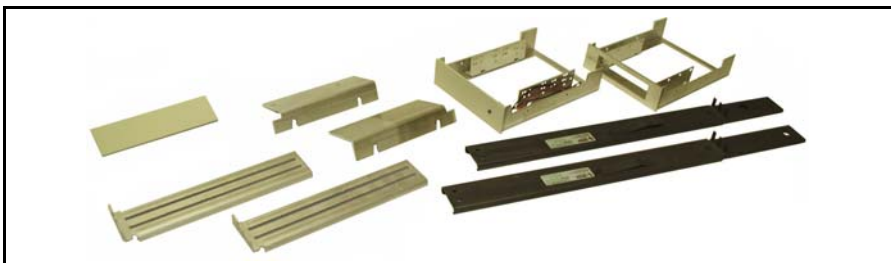
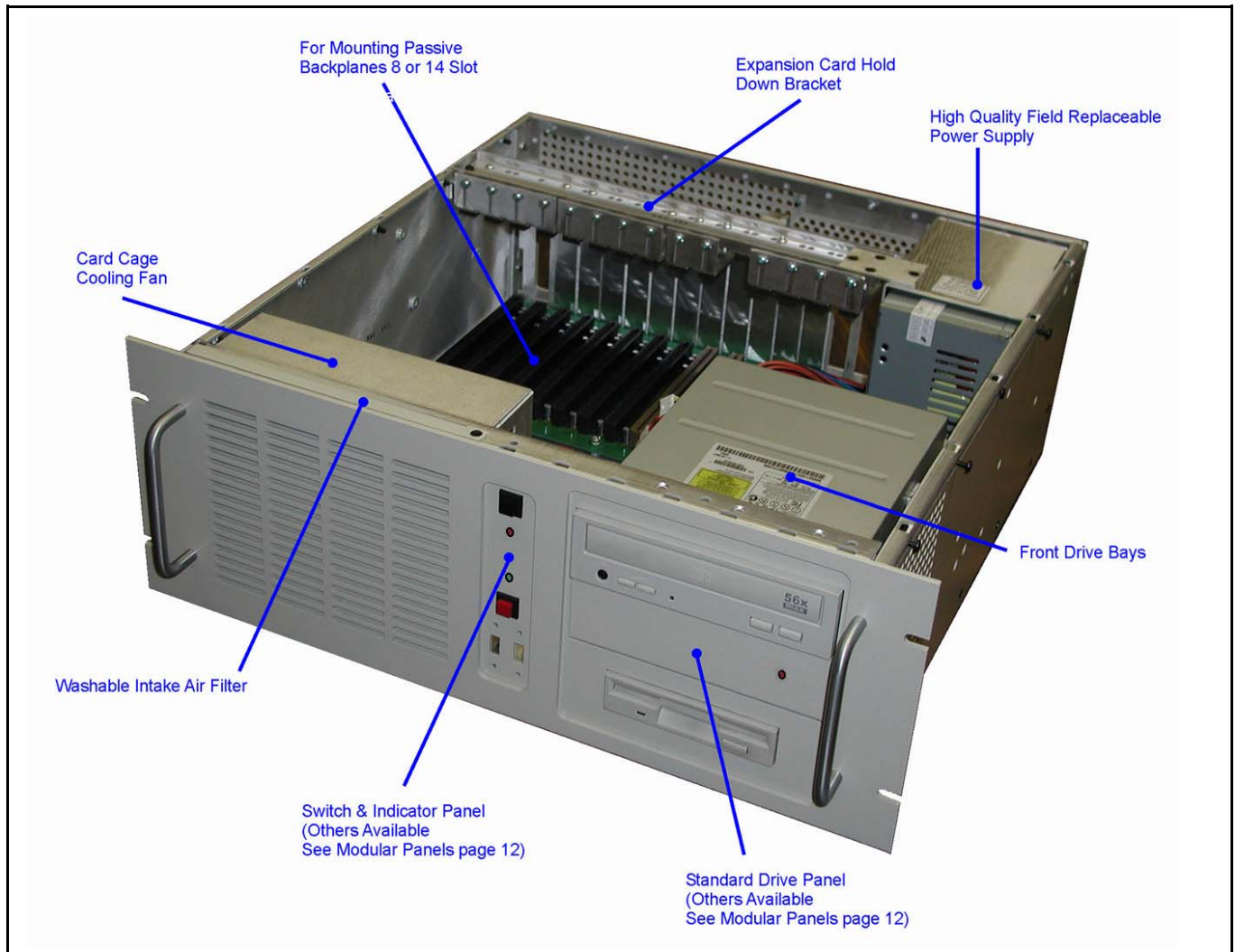
If requirements dictate modifications other than those available as library items, we can provide low cost solutions. We invite you to contact us.



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Accessories
See Page 7.



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PS MODEL	Input voltage	DC OUTPUT RATINGS								PS Safety Approvals
		Watts	+5V	+3.3V	+12V1	+12V2	-5V	-12V	+5Stdby	
-2A	117/230 VAC	250	25A	14A	10A	N/A	0.5A	0.5A	0.75A	UL, TUV, CSA, CE
-3A		300	30A		12A					
-35A		350	30A	28A	15A			3A		
-45A		450	45A	40A	10A			1A	2A	
-8A	-48VDC	250	25A	14A	N/A	0.5A	0.5A	1A		
-9A	+24VDC	250	25A				15A	1.0A	0.75A	
-12A	+12VDC	250	30A				22A	8A	0.72A	
-6AR Hot Swap/ Redundant	117/230 VAC	370	40A	20A			25A	0.5A	1.5A	
-8AR Hot Swap/ Redundant	-48VDC	300	30A	16A		1.0A				

SPECIFICATIONS

Input Voltage

- See Table Above

DC Outputs

- See Table Above

Temperature

- 10 to 40°C internal Operating, -20 to 70°C Storage

Humidity

- 20 to 85% Operating, Non Condensing

PS MTBF

- 100,000 hrs @ 25°C, Demonstrated

Size

- Rackmount: 4U (7") x 19" Panel x 17.5D

Weight

- 20 pounds, 30 UPS shipping
- Finish (External Surfaces Painted)**
- Rackmount: Rack panel textured, other surfaces smooth

ORDERING GUIDE

M590 - [] - [] - [] - [] - []

Power Supply
 2A = 250W
 3A = 300W, P4
 35A = 350W, P4
 45A = 450W, P4

8A = 250W, -48VDC Input
 9A = 250W, +24VDC Input
 12A = 250W, +12VDC Input
 6AR = 370W, Hot Swap/Redundant, P4
 8AR = 300W, -48VDC Input, Hot Swap/Redundant, P4

Rear Card Cage
 A = 8 Slots
 A14 = 14 Slots

Front Card Cage
 A8 = 8 Slots
 A12 = 12 Slots

Installed Backplane
 0 = None
 8 = 8 Slots
 14 = 14 Slots

Cabinet Color
 B = Black
 W = Off White

MODEL

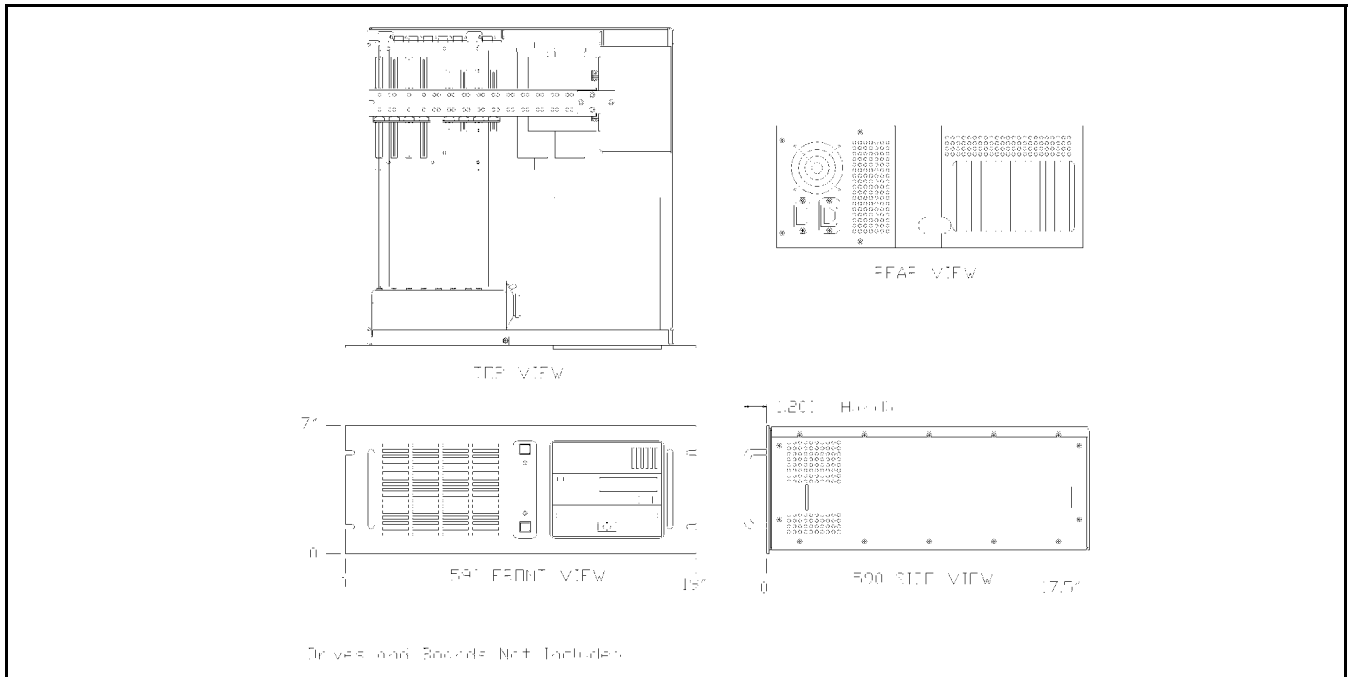
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 M590-8A-A14-A8-0-B
 M590-9A-A14-A8-0-B
 M590-12A-A14-A8-0-B
 M590-6AR-A14-A8-0-B
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590 – 8 Slot Passive Backplane Version

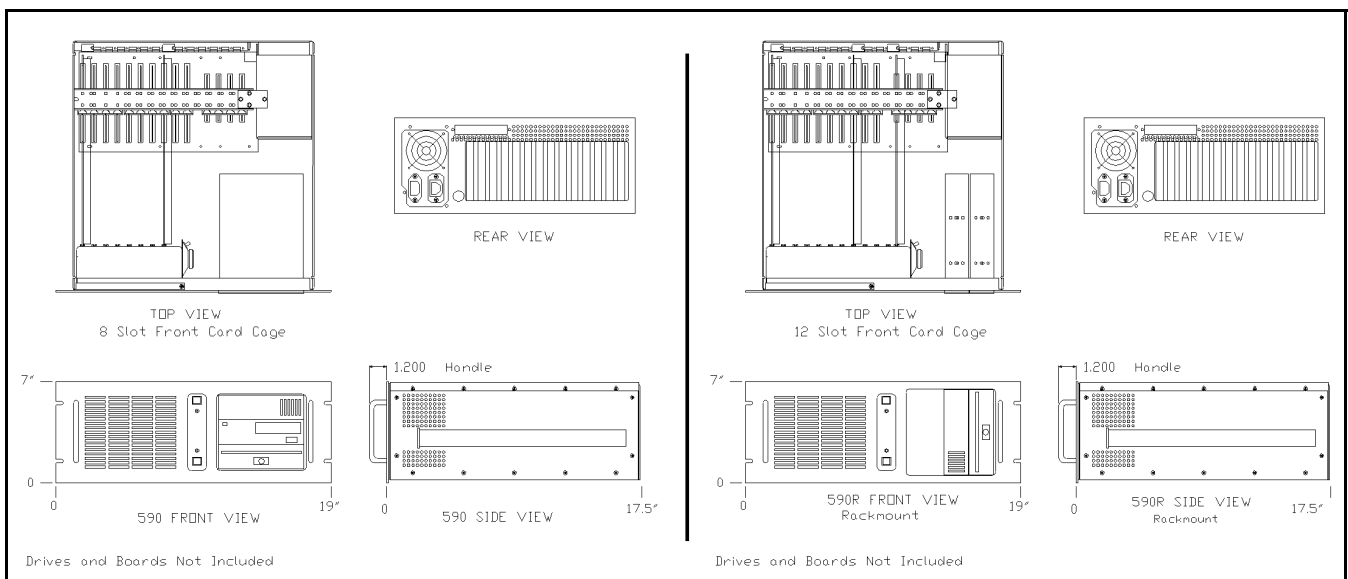
8 Slot FRONT Card Cage, 3 each 5¼ Half High Drive HORIZONTAL Thru Front



590 – 14 Slot Passive Backplane Version

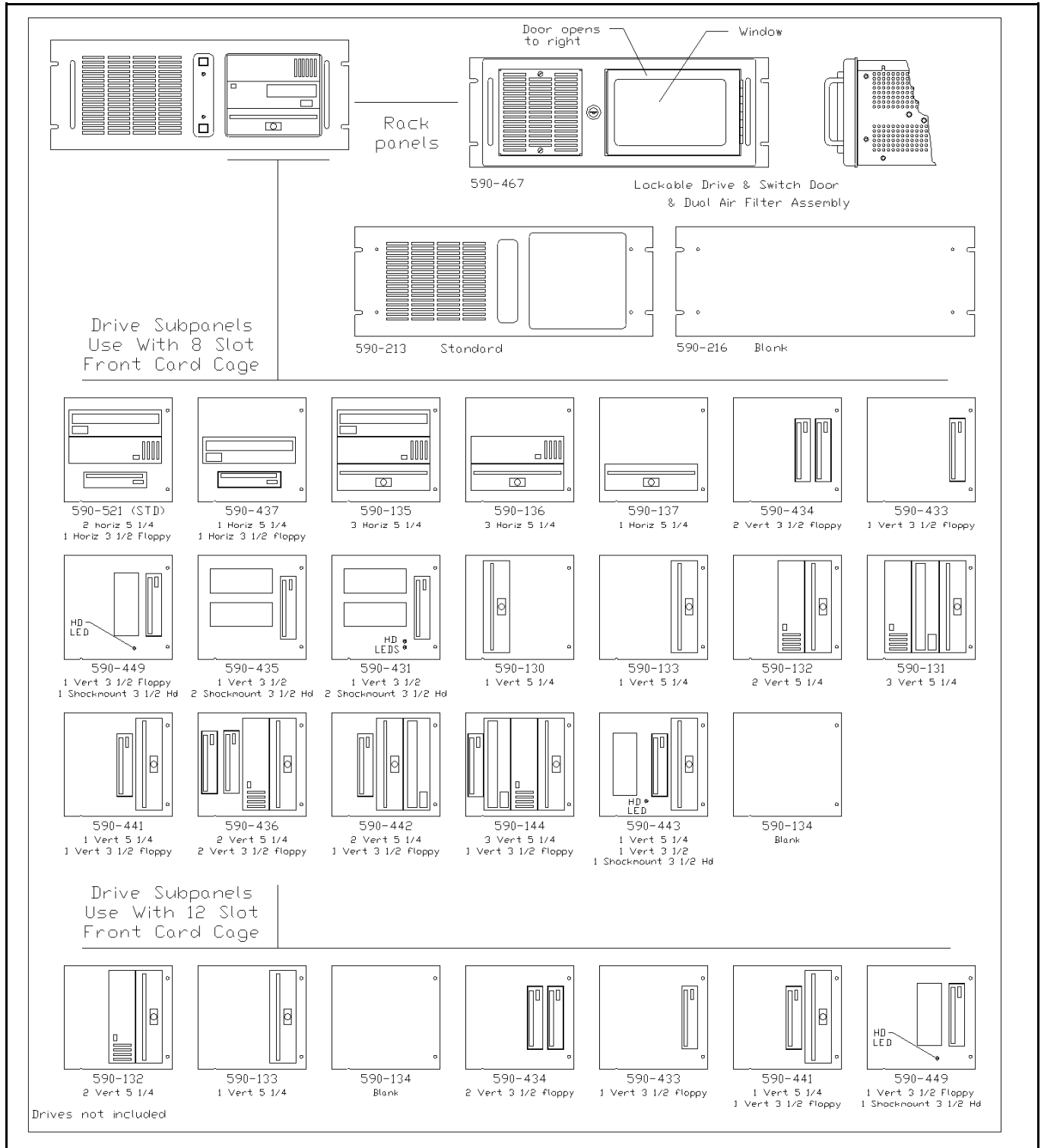
8 Slot FRONT Card Cage

12 Slot FRONT Card Cage



590 – Passive Backplane Version

– Modular Panels –

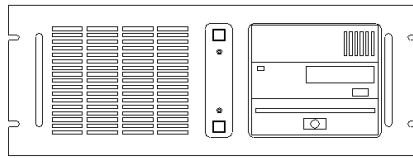




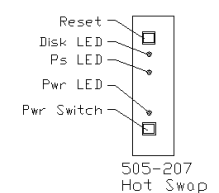
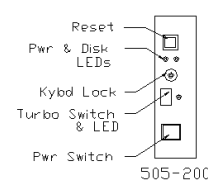
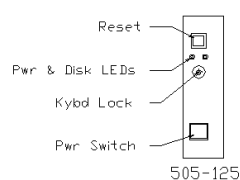
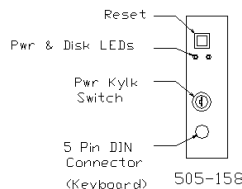
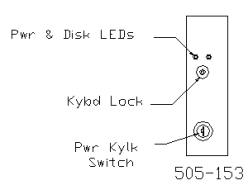
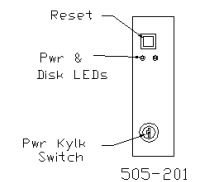
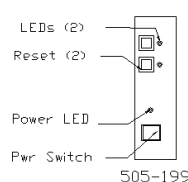
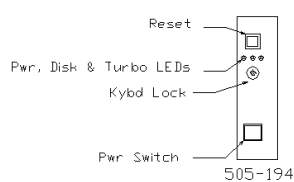
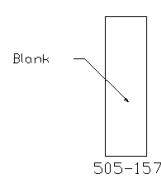
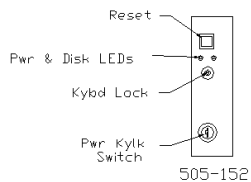
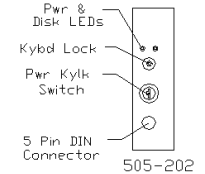
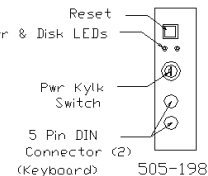
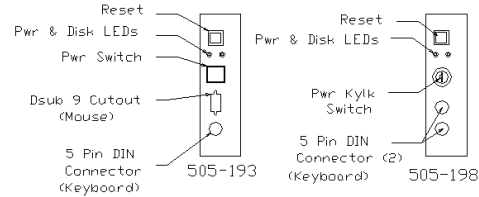
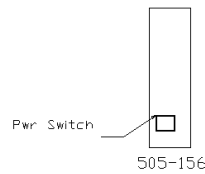
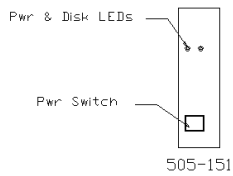
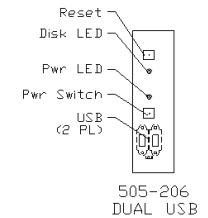
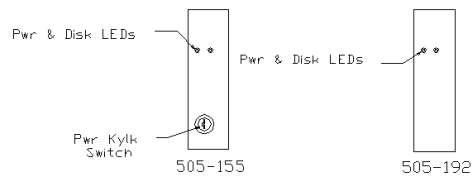
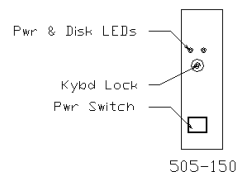
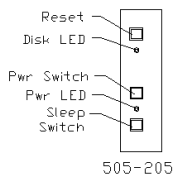
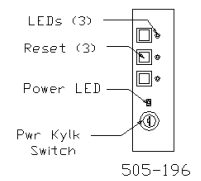
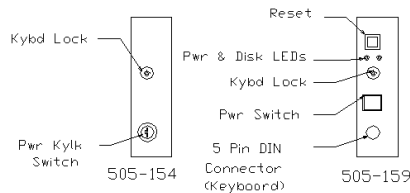
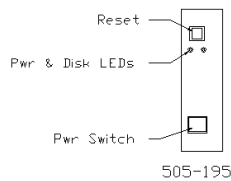
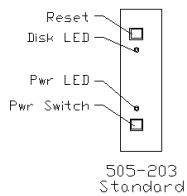
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Switch Subpanel Assemblies





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