



WORLD[®]
electronics

Product Catalog

Version 6.0

3000 Kutztown Road • Reading, PA • 800-523-0427 • world-electronics.com



Ordering Information

Order by phone:

800-523-0427 or 610-939-9800

Order by fax:

610-939-9895

8:00 AM - 5:00 PM (Eastern Time),
Monday - Friday

*Please refer to WORLD's part number or OEM name and part number in this catalog.
Please provide us with your Purchase Order number when placing the order.*

WORLD electronics®, 3000 Kutztown Road, Reading, PA 19605



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All other product names used in this catalog are trademarks, registered trademarks, or trade names of their respective companies.

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Order by phone:

800-523-0427 or 610-939-9800

Order by fax:

610-939-9895

8:00 AM - 5:00 PM (Eastern Time), Monday - Friday

After Hours – Voice Mail to Sales Department:

800-523-0427 Box #130 or 131

Please refer to WORLD's part number or OEM name and part number in this catalog.

Please provide us with your Purchase Order number when placing the order.

We accept 

www.world-electronics.com

Shipping

Orders for standard products will be shipped within one working day.

Services available:

FLASH Service: Same day air shipment - On the next plane to your destination! *This service requires advanced notice. Please call as soon as possible when requiring **FLASH** service.*

RUSH Service: Next Day Air Shipment

2 Day Service: 2nd Day Air Shipment

3 Day Service: 3 Day Select Shipment

Ground Service: Standard Ground Shipment

Carriers used are UPS, FedEx and U.S. Mail

WORLD does receive shipments from other carriers; however, UPS and FedEx guarantee we get your package before noon.

Shipping charges are prepaid and billed F.O.B. – F.O.B. is our plant at Reading, PA.

A Call For Information

WORLD is totally dedicated to supporting elevator companies throughout the world so that every company can service as many systems as possible. In order for us to continue this level of support, we need your help.

We are constantly in the market for bits of information, large or small, which may be of value in doing repairs or in solving our customers' problems. If you have information available which you feel may be of interest, don't hesitate to pick up a phone and inquire. Perhaps there is some way we can assist you as well, and at the same time, do others in the industry a service.

Repair Warranty

- Repairs are warranted to be in good working order at the time of shipment, unless otherwise specified.
- Requests for warranty repairs must be made within 90 days, so please test each board within that period to assure that it works properly.

Engineering Services

- Electronic and Electromechanical Design and Prototypes
 - Contract Manufacturing Services
 - Software and Hardware Development - Special Applications
 - Computer Aided Test Engineering
 - Bed of Nails or Card Edge In-Circuit Routines
 - Analog or Digital Circuitry
 - Pre or Post Production Testing
 - Full Documentation
 - Trouble-shooting and Component-Level Repairs - Field and In-House
 - Fully Documented Computer-Aided Design Services
- WORLD is a well established electronics manufacturing and test facility. We are uniquely suited to handle projects that present special requirements - custom design, high tolerance testing, proprietary circuitry, hybridized technology, etc. From simple to the highly complex, WORLD has consistently demonstrated its ability to produce results intelligently, economically and expeditiously.

New Board Warranty

All products manufactured by WORLD are fully guaranteed against defects in components and workmanship for a period of one year from date of original shipment to you, not from the date you install it - so please, install each board as soon as possible to verify that it functions properly. WORLD's warranty is limited to repair or replacement, at WORLD's option, of any product which fails due to faulty materials or workmanship.

Terms

- 2% 10 days, Net 30 days, from date of invoice, upon credit approval
 - C.O.D.
 - Wire transfer of funds directly to WORLD's bank account
 - All funds are payable in U.S. dollars
- Please call our sales department for further instructions and account information



Insurance and Product Damage

WORLD maintains a blanket insurance policy on all goods in transit from Reading, PA via common carrier.

Purchaser should:

- Inspect shipment upon receipt.
- Immediately report damages to common carrier.
- Preserve packaging materials involved until advised to release them by carrier's representative.
- Advise WORLD's customer service department of damage.

Returns

No new products purchased from WORLD should be returned for credit without prior return authorization and an RMA number which may be obtained by telephone from WORLD's sales department. Items returned for credit are subject to a 15% restocking charge and will be accepted only if in new condition and in original packaging. Items should be accompanied by a copy of the original packing slip or invoice. Items returned as defective must be returned within 30 days of authorization. All returns must be shipped freight prepaid.

Location & Hours

Visit our plant in Reading any time during our business hours.

Our operating hours are:

Monday - Friday 8:00 AM to 4:30 PM (E.S.T.)

Manufacturing Services

WORLD is very well equipped to take on manufacturing projects of virtually any level of complexity. We have the proven capacity to make your design a reality. From a single unit prototype to tens of thousands - we'd love to have an opportunity to bid on your assembly requirements.

Field Engineering/Consulting Services

If you are faced with a technical problem in the field, our engineering staff is available for consultation within its sphere of expertise. We will not accept consulting assignments dealing with systems beyond our level of competence, but will be happy to be of service whenever we are able. Contact either the sales department or our service manager for more details.

Software

Much has been said concerning the copyrighted software used on certain manufacturer's equipment. WORLD is very involved in this area and has sought the advice of some leading experts in this field. Simply stated, WORLD cannot copy job-specific memory chips for resale or for any purpose other than performing repairs on a specific system, when the software is provided to us by the building owner or his agent for that purpose.

We strongly recommend that any company planning to service microprocessor based systems purchase our Universal EPROM copier (DATAMAN 7501.9010 pg.7). This will enable you to make your own copies while on the job. It is always a good idea to keep a spare set of EPROMs in a safe place in case of an emergency - it may save you a lot of trouble, money and time.

Testing Services

WORLD is fully equipped to handle in-circuit simulation testing, diagnosis, and repair of virtually any type of circuitry. Our technical staff is well rounded, capable, flexible and will be happy to create standards and procedures for computerized testing of your equipment. Alternatively, we will work independently from your circuit and develop custom hardware and/or software to perform necessary diagnostics. Whether as a part of our manufacturing process, or as an independent test or repair facility, we always welcome contract testing assignments. Please discuss your production testing needs with us.

WORLD will be pleased to provide a written estimate of test performance, time and costs, upon your submission of a schematic diagram and general parameters.

Replacement Boards

WORLD is proud to present its replacement products to the elevator industry. Engineered to exacting standards by highly trained, skilled craftspeople, our boards represent our company and wear our well-known name with honor and distinction.

At WORLD, everything is done "WORLD's Way", meaning it is done right the first time - every time. From designing and manufacturing hundreds of products, to helping you place an order, we take extraordinary care in every part of our company to guarantee that you are shipped first quality products on the same day you place your order - (placed before 3:00 PM Eastern Time.)

Why Our Replacements Are Better?

Compare WORLD's direct replacement boards to the originals! Every board we manufacture is designed and built to be better than the OEM's. We make them better by:

- Correcting any reoccurring problem found while repairing each OEM board over time.
- Using a heavier, more durable board with thicker copper traces.

Each of these steps is taken on every board we make to ensure you years of trouble-free performance.

WORLD also offers our customers some of the industry's most experienced and valuable technical support. Your trust is important to us. We have a team of engineers and technicians that can help you troubleshoot most of today's elevator systems and answer technical questions that you may have.

Everyone at WORLD takes pride in offering you the most complete selection of replacement boards, and the most versatile repair capabilities in the North American Elevator Industry. We do it right the first time, every time - Guaranteed! That's "WORLD's Way".

New Items

WORLD is always developing new products – many items will be introduced to the industry before our next catalog is produced. If you have need of an item and don't see it in these pages, please call our sales department – your item may be right around the corner...Also, if there's a product or service you need, call us. You never know till you ask!

Repair Services

WORLD has a team of talented technicians who utilize over a million dollars worth of automatic test and repair equipment to offer you the most versatile elevator electronics repair services available.

Repair Procedure

Every board that is repaired by WORLD is serialized and tracked by computer to let each of us know when the board was received, repaired and shipped back to you. Each time a board is received into our repair department, its serial number hits our history file, and gives us the repair history of the board. An analysis of past failures often results in a recommendation to either (A) check the job for problems which may be taking out the board, or (B) replace the board completely.

All repairs are returned with a problem report documented directly on the packing slip.

Turnaround

FLASH Service: WORLD is capable of turning around a repair the same day it is received and getting it back to you that very same day! We'll try our hardest to get your elevator back running within 24 hours! Just say "**FLASH IT**"! This service requires advanced notice. Please call as soon as possible when requiring **FLASH** service.

We also offer 24, 48, and 72 hour rush service. 99% of the time we are able to turnaround repairs marked "**RUSH**" within the requested time frame. Typical turnaround is 5 - 10 working days for non-rush repairs.

How To Send In A Repair

- Use our ship-to address:
WORLD electronics
3000 Kutztown Road
Reading, PA 19605
- Enclose your company name, address, phone number, name of person to contact, email address, and ship-to and bill-to address.
- Enclose a P.O. number
- If you need an estimate prior to authorizing a repair, please state so. One of our technicians will call with an estimate based on an evaluation of the board.
- A small description of the problem is always helpful.
- Indicate **FLASH**, if you would like it shipped Same Day Air
- Indicate **RUSH** delivery, if you would like it shipped Overnight Air.

WORLD Products

Freedom Tool®

FREEDOMVare®



Notebook Computer Windows Based Diagnostic and Adjustment Tool

- Simple point and click operation
- Complete adjustability
- Easy to diagnose fault display
- Automatic testing
- Save and restore variables
and much more...



Buy one or all of the following software modules
or add a module as your business grows!

- | | |
|--|-----------|
| • Dover DMC-I™ | 7502.9011 |
| • Dover Traction T-III™ / T-IV™ | 7502.9014 |
| • Schindler/Westinghouse MPH-I™ & MPH-2™
300A™ and EPOCH 1&2™ | 7502.9015 |
| • Montgomery Miprom 21/Megatech | 7502.9016 |
| • US/Thyssen MP-1220™/MP-1230™/Ascension 1000™ ... | 7502.9017 |
| • Kone ES-5000™ Escalator / M.A.C. Marathon™ D.O.B. ... | 7502.9019 |
| • M.A.C. Marathon™ Worm Gear D.O.B. | 7502.9020 |

Call our sales department and inquire about future software modules
currently under development.

Stay Competitive!

FREEDOMVare®, stand alone software modules are usable on most notebook computers. The following minimum specifications are required:

Windows 2000/XP operating system, 1 USB port, CD-ROM drive, pointing device.

**Older versions are still available for Windows 9x operating systems. However, 1 RS-232 serial port and 1 parallel port are required for use with these operating systems.

Immediate turnaround repairs from our service department, technical support from our engineers, and replacement boards in stock are just 3 simple reasons to say YES to those once turned away contracts!

WORLD Products

Dataman Universal Memory Copier, Programmer, Emulator



7501.9111



7501.9110



7501.9010

7501.9113



7501.9116



7501.9012



7501.9115



Other Accessories available:

- 7501.9110DataPro 4 EPROM Eraser with
Timer / AC Power Supply
- 7501.9111Samsonite Carrying Case
- 7501.91129 Pin to 25 Pin Male serial cable
- 7501.911325 Pin Female to Male Serial Cable
- 7501.911540 Pin Adapter
- 7501.9116NiCd Battery Pack

Battery powered, hand held portable programmer will duplicate 24, 28, 32 pin memory chips up to 512K in the field, in minutes! Copies EPROMs of the 27 series (2716, 27C64, 256 and 512), flash EPROMs, EEPROMS of 28, 52, 55, 98 series (virtually anything you will find in an elevator.)

For the more advanced user, the unit is capable of data manipulation, either remotely with a computer via RS232 interface or via the unit's own keyboard. It also provides plug-in emulation for EPROMs, so you can test a new program before burning an EPROM.

WORLD carries most of the more commonly used blank memory chips in stock, at reasonable cost. Also, most are available through local electronic distributors.

DATAMAN comes complete with batteries and a full manual, ready to operate.

WORLD Products

Digital Tachometer (hand held)

DT-107 is a battery operated, hand-held, computer controlled, contact type tachometer. It incorporates the latest microcomputer technology to provide:

- Multi-mode capability to measure RPM, FPM, YPM, etc. without special accessories.
- Largest memory capacity
- Wide speed range with automatic floating decimal
- CMOS single chip microcomputer
- High reliability and low maintenance
- Rugged construction - aluminum die cast housing



7501.9107

Specifications:

Range	Autorangeing to 25,000 FPM
Display	5 digit 0.4 (10 mm) high LED with floating decimal point
Memory	Last reading displayed for 10 seconds and can be recalled within 4 minute period. Four intermediate readings, maximum and minimum readings stored in memory automatically and retained for 4 minutes - or four intermediate readings can be stored by selection.
System Control	Single chip CMOS microcomputer
Detection	Optical coupler, 60 pulses/rev.
Update Gate Time	Typically 1 second
Over-range Indicator	Decimals appear between 3 numbers
Batteries, Included	Life: averages 8 hours continuous use
Low Voltage Indicator	"B" display
Operating Temperature	32° to 120°F
Construction	Die cast aluminum housing
Weight	1 pound (450 grams)
Dimensions	8.3" long, 2.4" wide, 2" high
Accessories	1 Funnel adapter; 1 Master linear speed Measuring wheel (6" circumference) 1-3 1/2" extension shaft; Carrying case and operating instructions
Warranty	1 year

WORLD Products

Service Tools

7501.9004



7501.9002



7601.9018



7903.9006



7908.9012



7501.9002 **MD-2 High Voltage Logic Monitor (125V)**

120 VAC or VDC powered. Single or multiple signal latch. Isolated by neon couplers. Does not interfere with normal circuit operation. 5-way binding post for connection flexibility. Power failure monitor indicator. Monitors 6 separate circuits. Checks safety circuits for intermittent faults. Checks contact sequence in high speed relay circuits. Determines first contact to open in a chain. Permanently mounted in moving stairs, MD-2 provides quick answer to which skirt switch, slack chain switch or other N/C contact causes expensive shutdowns. Size 3.75" x 3" x 6.25"

7501.9004 **MD-1 Low Voltage Logic Monitor (TTL Level)**

Powered by equipment under test. Monitors 5 different signals. Trigger input selectable for rising / falling edge. Bright LED status indicators, 5-way binding posts for power. Spring brass hook eyes for EZ-Hook jumpers. Check low or high speed 5 volt logic circuits for proper sequencing. Dover - Westinghouse - Otis - US Elevator Systems. Reg 5V @ 150 MA Maximum input. TTL Level @ 1TTL load per input. Speed -25 MHz Maximum. Non-conductive, rugged case. Size 3.75" x 3" x 6.25"

7601.9018 **Montgomery Mini-Monitor Diagnostic Tool**

Replicates all functions of the Montgomery service tool in monitoring the operation of the MIPROM I microprocessor-based elevator systems. Simplifies service, cuts troubleshooting time, comes with necessary extender board and full manual. Ready to use

7903.9006 **1200/1210 MP Computer Display Board (PCD)**

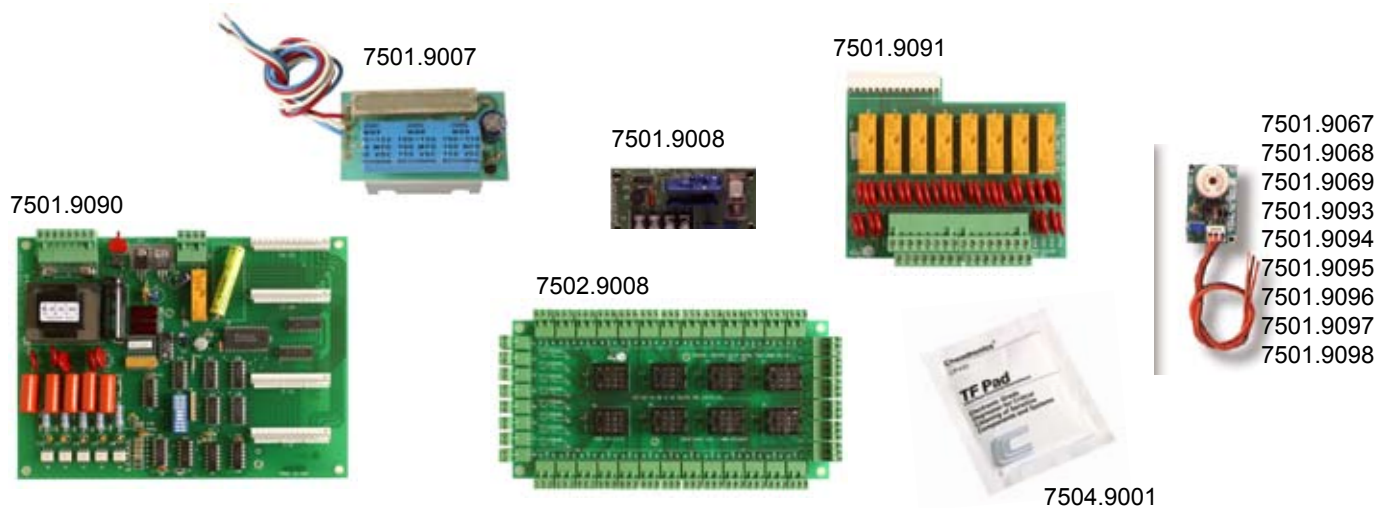
Diagnostic tool for field trouble-shooting of US MP-1200 / 1210 elevators.
Note: This is not compatible with or usable on MP-1220 or MP-1230 U.S. Systems. 1220 / 1230

7908.9012 **1220/1230/Ascension 1000 Portable Computer Display (PCD)**

Diagnostic tool for field trouble-shooting of US MP-1220 / MP-1230 / Ascension 1000 elevators.
Note: This is not compatible with or usable on MP-1200 or MP-1210 U.S. Systems, or Ascension 2000.

WORLD Products

Modules & Miscellaneous



Button Tone Module.

7501.9067	125 VDC
7501.9068	48 VDC
7501.9069	24 VDC

Ready for field installation! Provides audible beep upon completion of call entry.

2 Button Tone Modules.

7501.9093	Works on 24 - 31 VDC
7501.9094	Works on 45 - 55 VDC
7501.9095	Works on 110 - 135 VDC

Used in hall stations to satisfy audible call registration acknowledgement requirements. This module will provide an audible beep every time the button is depressed.

8 Button Tone Modules.

7501.9096	Works on 24 - 31 VDC
7501.9097	Works on 45 - 55 VDC
7501.9098	Works on 110 - 135 VDC

Used in car stations to satisfy audible call registration acknowledgement requirements. Each module will handle a maximum of 8 buttons and can be used in combination.

7501.9007 **Two Stroke Gong Module.** 125 VAC/DC 3 wire hookup. Indicates Up direction on arrival at landing by ringing once. Down direction by ringing twice. Chime not included. Use one per hall station.

7501.9008 **Two Stroke Machine Room Gong.** Indicates Up direction on arrival at landing by ringing once. Down direction by ringing twice. Length of 1st chime and off delay between chimes are adjustable. Hook-up simple for either new or retrofit application. Chime not included. Only one per car.

7501.9090 **Multi Lane Stepper Mother Board.** 4 Lane Stepper with AC or DC inputs. Handles up to 32 landings. Available in 12, 24, 48, 110V AC/DC.

7501.9091 **Multi Lane Stepper Relay Board.** For use with 7501.9090. 8 Landings per board.

7502.9008 **Universal Relay Board.** Need to add a relay? . . and keep it neat?!! This general purpose relay board may be your answer! It's customized to your request. Available in +5VDC, +12VDC, +24VDC, +48VDC, +120VDC and 120VAC. Capable of holding up to 8 relays Mix and match voltages! Quick and easy to install or remove!

7504.9001 **Edgewipes.** Used for removal of organic materials and/or corrosion, etc. from card edge connectors of circuit boards. Leaves surface clean, conductive, low resistive. Does not remove gold, solder or copper plating.

WORLD Products

GFC-IIA

7000.9013



7000.9012



7000.9022



7000.9016

7000.9021



WORLD #	Description	OEM #
7000.9012	Generator Field Control Regulator	7000.9012
7000.9013	GFC IIA Cable Assembly*	7000.9013
7000.9016	GFC IIA Box Assembly •	7000.9016
7000.9021	GFC IIA Knob Protection Bracket**	7000.9021
7000.9022	GFC IIA Installation Kit ~	7000.9022

GFC IIA replaces U.S. Elevator (Varitron) SSD1, Elevator Industries GMB (Model A), Reliable Elevator GFC, GFCII. Also replaces E-I GMB (Model B) with minor wiring change. NOTE: Also used in variable voltage controllers made by numerous regional companies, such as, Virginia Controls, Vertitron, Mid-American, Century, etc. See full specification and an expanded data sheet on page 12.

*4' cable used to interface GFC IIA regulator to system. Complete with 24 pin connector.

• Heavy duty steel enclosure used to mount GFC IIA on site or in control cab. Can also be used with GFC, GFC II, ISSD-1, GMB-A and GMB-B.

** In some areas of the country, UL requires this cover to be used. The bracket protects all of the external potentiometer knobs from accidental bumping once the GFC IIA is adjusted properly.

~ Kit includes all external resistors, capacitors and relays necessary to interface GFC IIA or other generator field control regulators to a motor-generator set.



Supplies generator shunt field, brake excitations. Provides consistent, smooth, stepless acceleration, and stopping functions, and is adaptable to all new or modernized elevator installations up to 350 FPM.

Incorporates the following independent controls:

- High speed
- Acceleration
- Deceleration – one floor run
- Deceleration – multi-floor run
- Approach speed
- Level speed
- Relevel speed
- Motor field weakening

Solid state design. Furnishes built-in protection from loss of motor field. All units undergo high-temp environmental testing and burn-in to minimize problems caused by infant component mortality after installation in the field. (Box and cable assembly not included.)

Technical Specifications:

Supply: 220 - 240 VAC - 60Hz, single phase

Input: Dry contact closure or transistor drive

Output: Generator field: 5A @ 140 VDC max @ 40 - 150 OHMS

Hoist motor field: 8A @ 200 VDC max @ 30 - 150 OHMS

Brake: 3A @ 200 VDC max @ 100 - 500 OHMS

Soft stop: 30 MA @ 35 VDC

Protection:

Generator: 16A

Hoist motor field: 15A

Brake: 3A

Generator field excitation range, ADJ O to:

High: 140 VDC

Intermediate: 120 VDC

High level: 50 VDC

Level: 10 VDC

Relevel: 20 VDC

Acceleration: ADJ .05 - 4.0 seconds

Deceleration: ADJ 0.5 - 4.0 seconds

Physical:

Size: 6" x 9 3/4" x 5"

OP temperature: -32° to +120° (F)

Accessories for GFC IIA

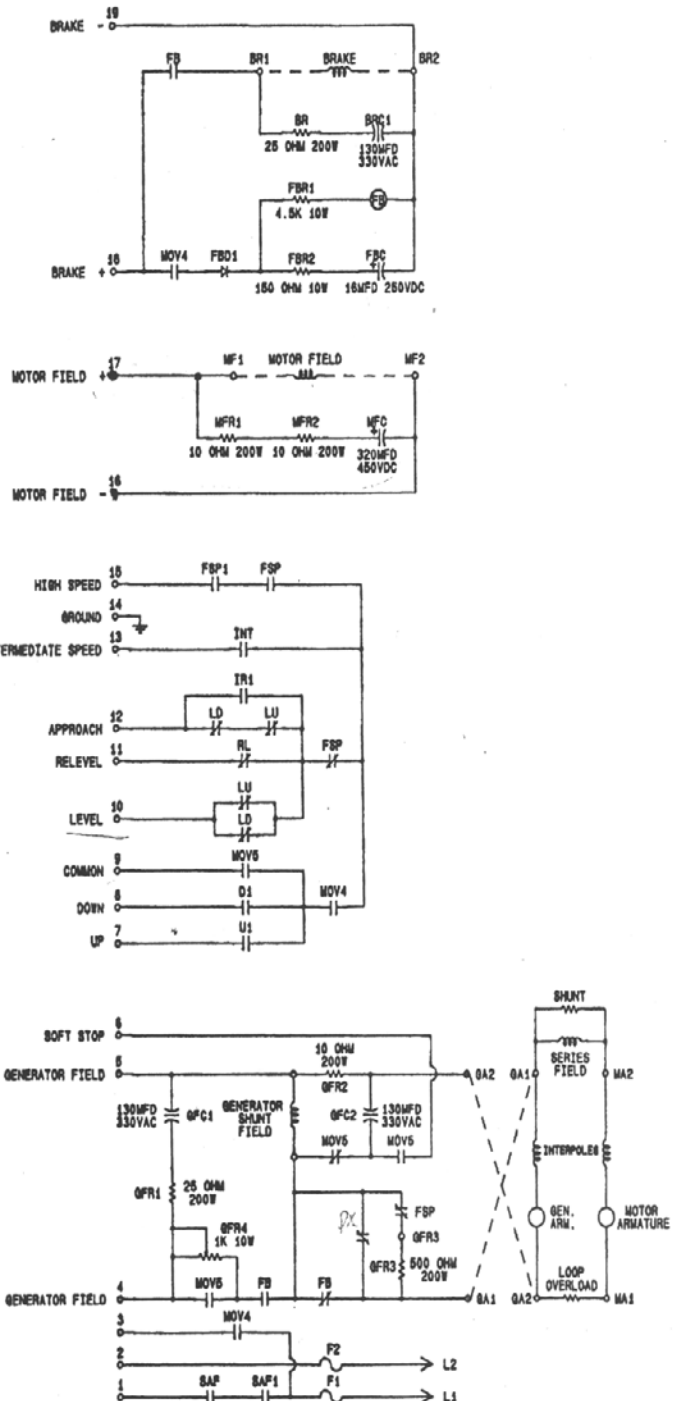
7000.9013 4' cable w/connector

7000.9016 Box for mounting

7000.9022 R/C interface kit

Connector: Cinch S3324CCE

GFC-IIA TYPICAL HOOKUP



WORLD Products

Replacement Power Supplies

6099.9000



6099.9001



6099.9003



6099.9024



WORLD #	Description		OEM #
	Output Volt. Adj. RangeOutput Current		
6099.9000	+5V	4.75V to 5.50V	20A..... MAP130-4000
	+12V	11.5V to 12.5V	5A..... MAP130-4000
	-5V	Fixed	1A..... MAP130-4000
	-12V	Fixed	1A..... MAP130-4000
6099.9001	+5V	4.75V to 5.50V	20A..... MAP130-4001
	+24	23.0V to 25.0V	3.5A MAP130-4001
	-12V	Fixed	1A..... MAP130-4001
	+12V	Fixed	1A..... MAP130-4001
6099.9003	+5V	4.75V to 5.50V	20A..... MAP130-4003
	+15V	14.0V to 16.0V	4A..... MAP130-4003
	-5V	Fixed	1A..... MAP130-4003
	-15V	Fixed	1A..... MAP130-4003
6099.9024	24V/28V	22.5V to 30.0V	6.2A/5.4A MAP130-1024

WORLD Products

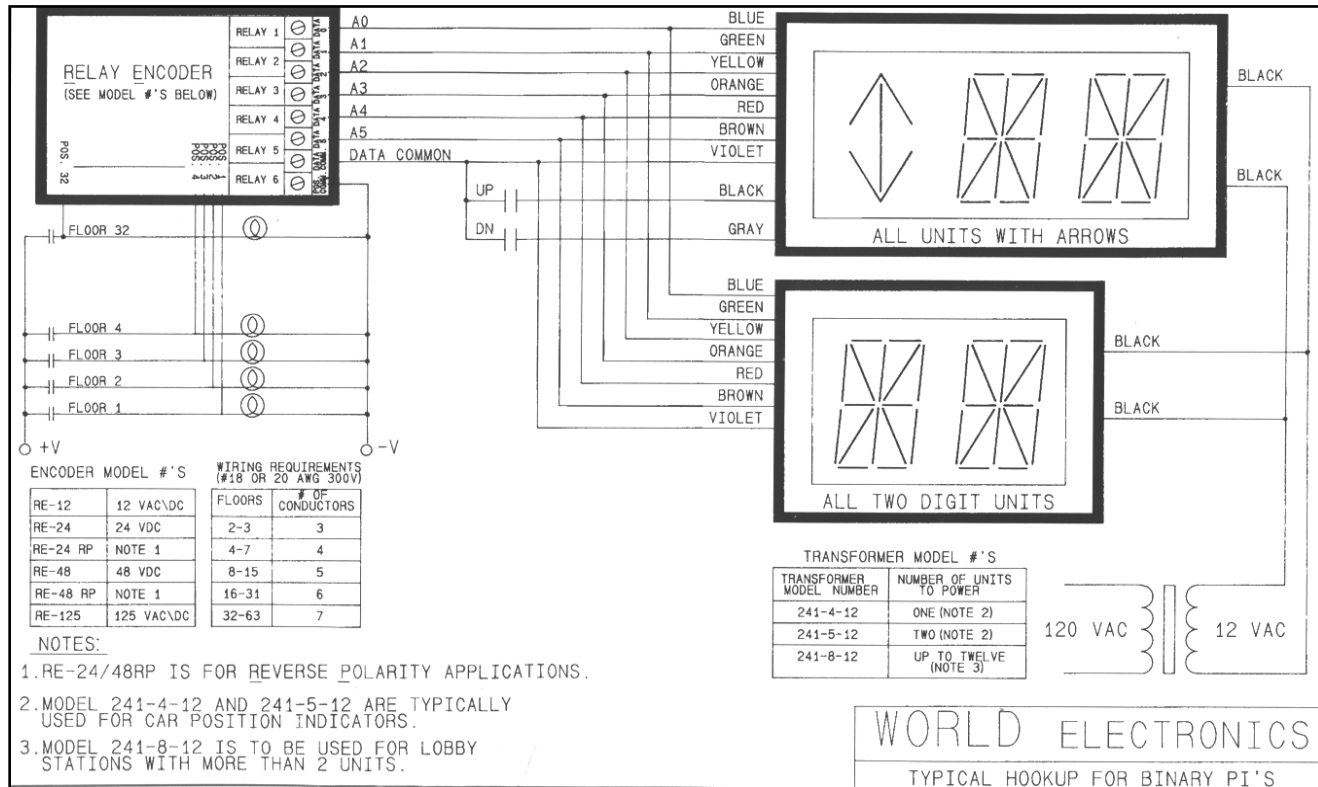
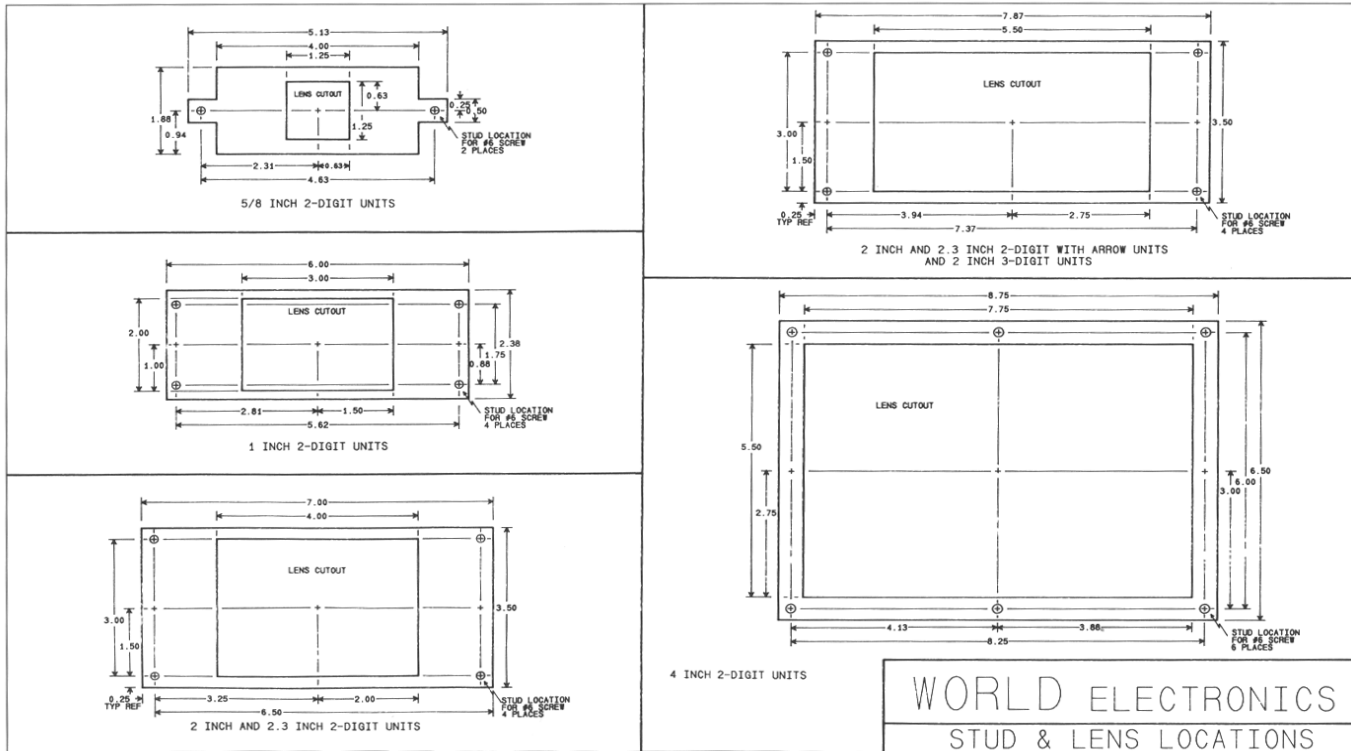
Position Indicators (PI's)



A 5/8 Inch Binary. • 2 digits, vertical or horizontal Full alphanumeric capability 64 positions, binary driven Models: DR3 - Dover program T-II, etc. DR4 - Westinghouse program, T²L, EPOCH DR5 - Standard program 7503.9030 Vertical 7503.9031 Horizontal	E 2.3 Inch Binary w/Arrow. 2 digits with Up/DN Arrow, horizontal only, full alphanumeric capability 64 positions, binary driven with error correction circuitry to provide a stable readout. Single board design 7503.9055 Horizontal
B 1 Inch Binary. • 2 digits, vertical or horizontal Full alphanumeric capability 64 positions, binary driven Models: DR9 - Dover program T-II, etc. DR10 - Westinghouse program, T²L, EPOCH DR11 - Standard program 7503.9090 Vertical 7503.9091 Horizontal	F 4 Inch Binary. 2 digits, horizontal only Full numeric, limited alpha capability 7 segment 64 positions, binary driven Letters available: A,C,E,F,H,J,L,O,P,U. 7503.9062 Horizontal
C 2 Inch Binary. 7503.9060 • 2 Digits, horizontal only, full alphanumeric capability, 64 positions, binary drive. Models: DR6 - Dover program T-II, etc. DR7 - Westinghouse program, T²L, EPOCH DR8 - Standard program 7503.9010 • 3 Digits, horizontal only, full alphanumeric capability for special applications having 3 characters in display, 64 positions, binary drive.	G 2 Inch Binary w/Arrow. 7503.9012 • 2 Digits with Up/DN Arrow, horizontal only, full alphanumeric capability, 64 positions, binary drive. Models: DRA6 - Dover program T-II DRA7 - Westinghouse program, T²L, EPOCH DRA8 - Standard program
D 2.3 Inch Binary. 2 digits, horizontal only Full alphanumeric capability 64 positions, binary driven with error correction circuitry to provide a stable readout. Single board design 7503.9054 Horizontal	H 2 Inch Decimal w/Arrow. • 2 Digits with Up/DN Arrow, horizontal only; limited, preprogrammed decimal drive. Uses existing wiring for very economical installation. Pre-Program A (B, B1, G, L, LL, M, 1-12) 7503.9067 48 VDC Sink 7503.9068 48 VDC Source 7503.9073 24 VDC Sink 7503.9074 24 VDC Source Pre-Program B (P1, P2, P3, B, B1,G, L, LL, M, 1-9) 7503.9064 48 VDC Sink 7503.9065 48 VDC Source 7503.9070 24 VDC Sink 7503.9071 24 VDC Source Sink = Positive Common (Active High) Source = Negative Common (Active Low)

WORLD Products

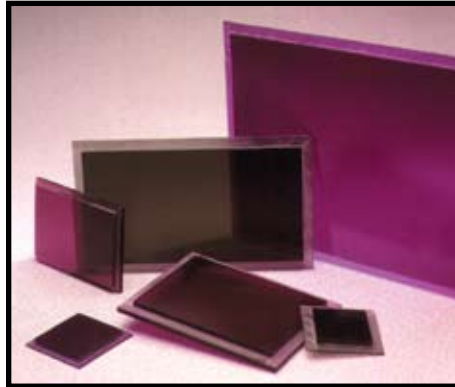
Position Indicators (PI's)



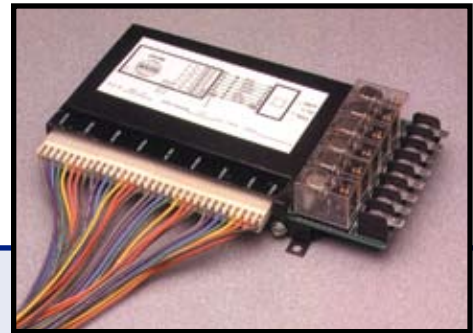
WORLD Products

Encoders, Transformers, & Lenses

LENSES



ENCODERS



Encoders

7501.9058.....	RE24AC, 24 VAC
7501.9060.....	RE125, 125 VAC/DC
7501.9061.....	RE48, 48 VDC
7501.9062.....	RE24, 24 VDC
7501.9063.....	RE12, 12 VAC/DC
7501.9064.....	RE48RP, 48 VDC, reverse polarity
7501.9088.....	RE24RP, 24 VDC, reverse polarity

All are 32 position

Note: 33 - 64 positions require 2 of appropriate encoder.

Relay encoders are required to convert relay logic position indicator drive to binary format. Each encoder will drive virtually unlimited number of PI's. Microprocessor systems having a 6-bit binary output can drive PI's directly, with no encoder required.

Transformers (Not pictured)

7504.9010.....	12 Volt @ 0.5 A, powers 1 PI
7504.9011.....	12 Volt @ 1.0 A, powers 2 PI's
7504.9012.....	12 Volt @ 8.0 A, powers 16 PI's

All are 115 VAC primary. 240 volt primaries are available on special order.

Lenses

Black Ruby – Red P.I.

7504.9002.....	2 character, 2 or 2.3 inch
7504.9003.....	2 character, 2 or 2.3 inch
7504.9004.....	2 character, 1 inch
7504.9005.....	2 character, 2 or 2.3 inch
7504.9006.....	2 character, 4 inch
7504.9007.....	2 character, 5/8 inch

Our famous "black ruby" lens was custom designed to pass only the brilliant color of our ruby-red LED displays. Showing a satin black surface to the rider, only the lighted segments show through. They are made of cast acrylic and machined to fit flush through a .125 thick panel.

Green P.I.

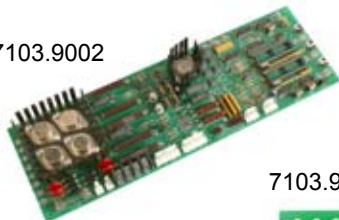
7504.9008.....	2 character, 2 or 2.3 inch smoke color
7504.9009.....	2 character, 5/8 inch smoke color

Note: Our position indicators are stocked with red LED characters. We will be happy to quote any custom display requirement.

7103.9001



7103.9002



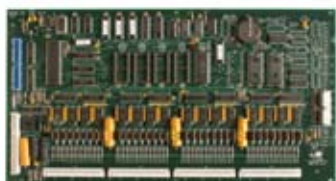
7103.9004



7103.9008



7103.9005



7103.9009



7103.9017



7103.9025



WORLD #	Description	DOVER #
7103.9001	Power Unit Relay	6300BJ, 141305, 141339, 9841301, 9851379
7103.9002	Door Operator (HD-85)	6300CA, CU, 9804134, 9881323, 141329, 6300EHI
7103.9004	Selector Processor	6300CV, 9841313, 141317
7103.9005	Car Logic Control (CLC) Pre-'92..	6300 BP1, 2, 9841337, 141310, 141336
7103.9007	5/12 Volt Power Supply	9841507, 141500
7103.9008	Main Sensor Board**	6300CD, 9841325, 141323
7103.9009	Auxiliary Sensor Board	6300CE, 9741331, 141335
7103.9012	CLC I/O Expander	141456, 141457
7103.9016	Car Logic Control(CLC) after '92 .	6300BP4
7103.9017	Door Operator Board	6300FX 1, 2, 3
7103.9014	Lithium Back up Battery	
7103.9025	Power Unit Relay Board	6300BJ11

7103.9007



7103.9012



7103.9016



7103.9014

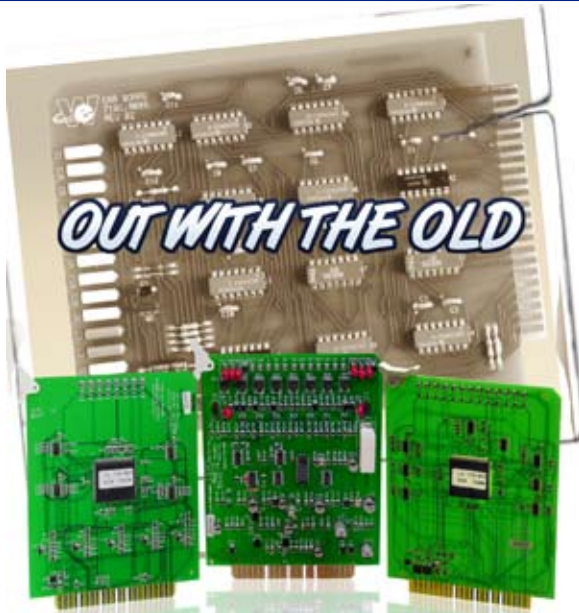


**Magnets, holders and guides are not included.

WORLD replacement microprocessor boards are sold without software. In order to use the board in a controller, it is necessary to retain the memory chips from the original board, or to install archive copies of the originals. **WORLD** strongly recommends that copies of all EPROM memory chips be made for archive purposes as soon as a job is placed under contract. Damaged PC boards can be repaired or replace by **WORLD**, but damaged memory chips can only be replaced by the elevator's original manufacturer.

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3 and 4 Slot—Oildraulic



Our engineers replaced obsolete through-hole technology with today's readily available surface-mount technology. WORLD's modern replacement boards ensure better reliability and cost savings long into the future.

7101.9070



7101.9073



7101.9078



7101.9072



7101.9071



7101.9077



7101.9075



7101.9074



WORLD #	Description	DOVER #
7101.9070	4 Slot Power	105248, 68177, 9855245 Replaces WORLD #7101.9002
7101.9071	4 Slot Door	124519, 68178, 9881785 Replaces WORLD #7101.9004
7101.9072	4 Slot Car Board	123948, 67179, 9881797 Replaces WORLD #7101.9006
7101.9073	4 Slot Top & Bottom	105251, 68431, 66691 Replaces WORLD #7101.9008
7101.9074	4 Slot Intermediate	105252, 68432, 9855269 Replaces WORLD #7101.9010
7101.9075	4 Slot Option Board*	105254, 68525, 9805254 Replaces WORLD #7101.9012
7101.9077	3 Slot Duplex	9884336, 68433 Replaces WORLD #7101.9013
7101.9078	3 Slot Logic	68180 Replaces WORLD #7101.9015
7101.9017	3 or 4 Slot Extender†	n/a

WORLD's 4 Slot Boards also replace 3 Slot Hydro Boards.

* Also replaces 5 and 6 slot option boards, by removing key from edgecard connector.

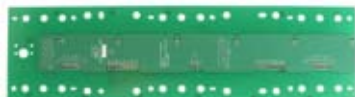
Functionally identical to 5/6-slot

† Not Pictured, Call for Availability

Dover

Traflomatic III

7105.9009



7105.9008



WORLD #	Description	DOVER #
7105.9008	Selector Board	6300AE4
7105.9009	Main Sensor Board.....	6300AA1

Dover

MSC-I

7104.9003



7104.9008



7104.9001



7104.9007



WORLD #	Description	DOVER #
7104.9001	Speed Pattern.....	115296, 115294, 9852943
7104.9003	System Monitor	940496, 140500, 9840515
7104.9007	Power Board.....	140483
7104.9008	Regulator Board.....	140495, 140490

7101.9023



7101.9040



7101.9041



7101.9043



7101.9024



7101.9028



7101.9025



7101.9033



7101.9048



WORLD #	Description	DOVER #
7101.9023	Optical Leveling Control.....	9811266, 112261, 126125, 145557
7101.9024	P.I. Driver Board	9811382, 9811370, 113328, 113329
7101.9025	Reverse Phase Relay	68187
7101.9028	Reverse Phase Relay	111973
7101.9033	Display Module.....	113336, 9713335
7101.9040	Level Sensor Emitter	112267
7101.9041	Level Sensor Detector	112264
7101.9043	Optical Leveling Control '95	6300FF1
7101.9048	LSP Board	113042

Miscellaneous

7101.9031



7101.9032



7101.9035



7101.9039



7101.9044



WORLD #	Description	DOVER #
7101.9031	3 Phase Rectifier Assembly	114128, 114129, 9841246, 300V 3A 67981, 9879810, 72109, 76824
7101.9032	3 Phase Rectifier Assembly	67967, 9879675, 75303, 300V 3A 76785, 76866, 113149, 111207
7101.9035	Universal 3 Phase Rectifier.....	all Dover 3 Phase rectifiers 300V 6A with full ARC suppression
7101.9039	3 Phase Rectifier Assembly	115298, 9715289 300V 6A
7101.9044	Dbl, Sgl Phase Full Wave	113065, 67968, 69298, 24VDC 3A 111208 Rectifier Assembly
7103.9020	DMC Reed Switch	9741653, 141555
7103.9021	CAM Magnet Holder for DMC Door...	9741227
7103.9022	DMC Tape Guide.....	14150923
7103.9023	DMC 2.5" Magnet	9810778
7103.9024	DMC 8" Magnet	9741070
7109.9507	20 - 60 V Universal Timer	101528, 105238, 9852049, (0.1 - 260 seconds) 124561, 105242 101529, 68536, 9805229, 9815296, 9815284, 9852797, 65278, 9805278, 9885365
7109.9508	115 VAC/DC Universal Timer	124566, 105198, 65280, (0.1 - 260 seconds) 105280, 9852037, 105201, 124566, 9852001, 9852803, 9851987
7103.9014	Lithium Back up Battery	

7103.9020



7103.9021



7103.9022



7103.9024



7103.9023



7109.9508

7109.9507



7103.9014

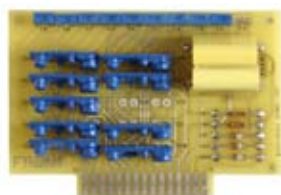
7305.9010



7309.9002



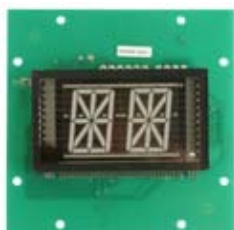
7309.9004



7309.9005



7309.9009



7309.9006



7309.9007



7309.9010



7311.9006



WORLD #	Description	OTIS #
7305.9010	Power Supply	A8121BA1-15 & 30 VDC A8121BA2-15 & 15 VDC
7309.9002	LRV-3 Microprocessor	A8121AW1, B8121AW1
7309.9004	7 Stage Timer	A8121Y
7309.9005	LRV-3 Hall Button Interface	A8121AY
7309.9006	P.I. Driver	A8121AH2
7309.9007	Hall/Car Button.....	8200KA1
7309.9009	Vacuum Fluorescent PI.....	8200DA1
7309.9010	LRV-3 Relay Board	A8121AX
7311.9006	Hall Button Tone Module.....	8128GDI

WORLD replacement microprocessor boards are sold without software. In order to use the board in a controller, it is necessary to retain the memory chips from the original board, or to install archive copies of the originals. **WORLD** strongly recommends that copies of all EPROM memory chips be made for archive purposes as soon as a job is placed under contract. Damaged PC boards can be repaired or replace by **WORLD**, but damaged memory chips can only be replaced by the elevator's original manufacturer.

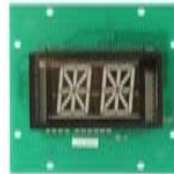
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LRV-4, LRV-4L and LRV-5

7305.9010



7309.9009



7311.9006



7309.9007



7309.9006



7310.9003



7310.9001



7310.9002



7313.9001



WORLD

Description

OTIS

7305.9010	Power Supply	A8121BA1-15 & 30 VDC A8121BA2-15 & 15 VDC
7309.9006	P.I. Driver	A8121AH2
7309.9007	Hall/Car Button	8200KA1
7309.9009	Vacuum Fluorescent PI	8200DA1
7310.9001	LRV-4 Microprocessor	A,B,C,8121DB1
7310.9002	Hall Button Interface	A,B,C,D,E8121BE
7310.9003	LRV-4 Relay	B8121AX
7311.9006	Hall Button Tone Module	8128GD1
7313.9001	LRV-4L/LRV5 Microprocessor	D, E8121DB1
7310.9004	LRV-4 Relay Board	AAA26800MZ1



7310.9004

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LRS-3 and LRS-3L

7305.9010



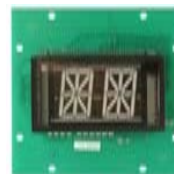
7309.9006



7309.9007



7309.9009



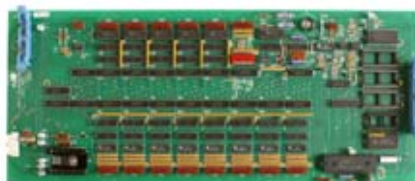
7310.9002



7310.9003



7311.9001



7311.9002



7310.9004



7311.9005



7311.9006



7311.9010



WORLD #	Description	OTIS #
7305.9010	Power Supply.....	A8121BA1-15 & 30 VDC A8121BA2-15 & 15 VDC
7309.9006	P.I. Driver.....	A8121AH2
7309.9007	Hall/Car Button	8200KA1
7309.9009	Vacuum Fluorescent PI	8200DA1
7310.9002	Hall Button Interface	A,B,C,D,E8121BE
7310.9003	LRV-4 Relay	B8121AX
7310.9004	LRV-4 Relay Board	AAA26800MZ1
7311.9006	LRV Gong	8128GD1
7311.9001	LRS-3 Microprocessor.....	A,B,C,D8121BC
7311.9002	Touchtone Interface	A8121BJ
7311.9005	Jewel Board	A8200JA1
7311.9010	LRS-3L Microprocessor.....	E, F8121BC

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7304.9004



7305.9002



7305.9020



7305.9037



7305.9036



7306.9058



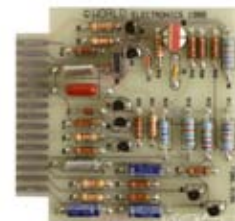
7306.9181



7305.9022



7306.9186



WORLD #	Description	OTIS #
7304.9004	Extender Board	n/a
7305.9002	Door Detector.....	7048A
7305.9020	Spec. Emergency Serv. Relay Bd.....	A8119AK1, 2 (SES)
7305.9022	A8121D Replacement	A8121D1,2,3,4
7305.9036	Memco Replacement	9948J1-3
7305.9037	Latch Module	610BB1
7306.9058	Alternate Floor Fire Service	use with A8112H
7306.9181	5 & 35 Volt Power Supply	A8118A
7306.9186	Dual Gong Board.....	A8121E4

Montgomery-KONE

Escalator E-Series 5000

7606.9001



7606.9002



7606.9003



7606.9004



7606.9005



WORLD #	Description	MONTGOMERY - KONE #
7606.9001	MCU Board	P32302
7606.9002	Brake Board.....	P32276
7606.9003	Upper/Lower Annunciator Board.....	P32886
7606.9004	Controller Annunciator Board.....	P24684
7606.9005	Power Supply Board.....	P32635

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Montgomery-KONE

Miprom 21

7601.9011



7601.9015



7602.9004



7601.9014



7602.9001



7602.9003



7602.9022



7602.9002



7602.9007



7602.9005



7602.9006



7602.9015



WORLD #	Description	MONTGOMERY #
7601.9011	Relay Output Board.....	P24100
7601.9014	Output W/Terminal Block.....	P24147
7601.9015	Input W/Terminal Block	P24151
7602.9001	Pilot Relay Board	P24323
7602.9002	Motherboard	P24288
7602.9003	Power Relay Board	P24325
7602.9004	MSU Board	P24972
7602.9005	CPU Board	P24377
7602.9006	PI/O Board.....	P24301
7602.9007	Prom Board for 7602.9005.....	P24298
7602.9015	CPU Board	P24873
7602.9022	Prom Board for 7602.9015.....	P24842

WORLD replacement microprocessor boards are sold without software. In order to use the board in a controller, it is necessary to retain the memory chips from the original board, or to install archive copies of the originals. **WORLD** strongly recommends that copies of all EPROM memory chips be made for archive purposes as soon as a job is placed under contract. Damaged PC boards can be repaired or replace by **WORLD**, but damaged memory chips can only be replaced by the elevator's original manufacturer.

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Montgomery-KONE

Miprom I

7601.9001



7601.9007



7601.9010



7601.9008



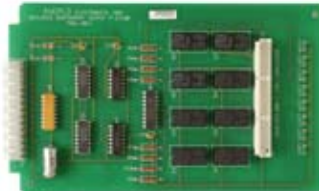
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7601.9004



7601.9011



7602.9008



7601.9026



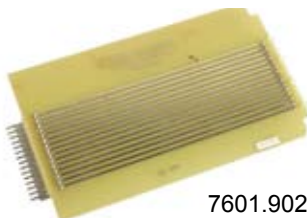
7601.9018



7601.9019



7601.9020



WORLD #	Description	MONTGOMERY #
7601.9001	Power Supply w/ Brownout	P16787, P16835, P15903
7601.9004	I/O Interface	P16783
7601.9007	Input w/ Terminal Block	P16785, P15761, P15730
7601.9008	Input w/ Molex	P16778, P15762
7601.9009	AC Output w/ Terminal Block	P16776, P15775
7601.9010	AC Output w/ Molex	P16777, P15774
7601.9011	Relay Output Board.....	P24100
7601.9018	Mini Monitor Diagnostic Tool (Miprom Long)	
7601.9019	44 Pin Extender - Miprom Logic	
7601.9020	15 Pin Extender - input & output	
7601.9026	DC Output Board with Terminal Block ..	P16778
7602.9008	MST Microprocessor.....	P25908

Moline

Accessories

7603.9002



7603.9003



7603.9007



7603.9004



7603.9006



7603.9008



7603.9005



7603.9009

WORLD #	Description	MOLINE #
7603.9002	MAC Speed Control Board	P24170, A46222, P16363, P15675, P15764, P24561
7603.9003	MAC Power Board	P16364, A46223, P15765, B49711, B47135, P24172, P24173
7603.9004	MAC Mother Board	P16365, A46224, P15766, B47136
7603.9005	MAC Cable Adapter	P15807
7603.9006	104X Door Operator Board	P24783
7603.9007	Auxillary Board for Constant Power	P24864
7603.9008	MLS Door Operator Board	P24150
7603.9009	Marathon "Worm Gear" Door	P31737
	Operator Board	

WORLD replacement microprocessor boards are sold without software. In order to use the board in a controller, it is necessary to retain the memory chips from the original board, or to install archive copies of the originals. **WORLD** strongly recommends that copies of all EPROM memory chips be made for archive purposes as soon as a job is placed under contract. Damaged PC boards can be repaired or replace by **WORLD**, but damaged memory chips can only be replaced by the elevator's original manufacturer.

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U.S. Elevator/ThyssenKrupp

Ascension 2000 - TC 2000

7802.9001



7802.9003



7802.9004



7802.9012



7802.9005



7802.9006



7802.9008



7802.9013



7802.9017



7802.9018



7802.9019



WORLD #	Description	U.S. ELEVATOR/THYSSEN #
7802.9001	CPU Board	146-05720-300
7802.9003	Hall Call Board.....	146-05731-300
7802.9004	CPS Board.....	146-05735-300
7802.9005	Motion Function Board	146-05733-300
7802.9006	Motion Board	146-05754-300
7802.9008	Function Board	146-05750-300
7802.9012	CTP I/O Board	146-05730-300
7802.9013	MCU Board	146-05740-300
7802.9017	LED Board "Selector Unit"	146-05786-300
7802.9018	Main Sensor Board "Selector Unit".	146-05785-300
7802.9019	Hall Effect Board "Selector Unit"	146-05787-300

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U.S. Elevator

Ascension 1000

7803.9001



7803.9002



7803.9003



7803.9004



7803.9006

7803.9005



7803.9007



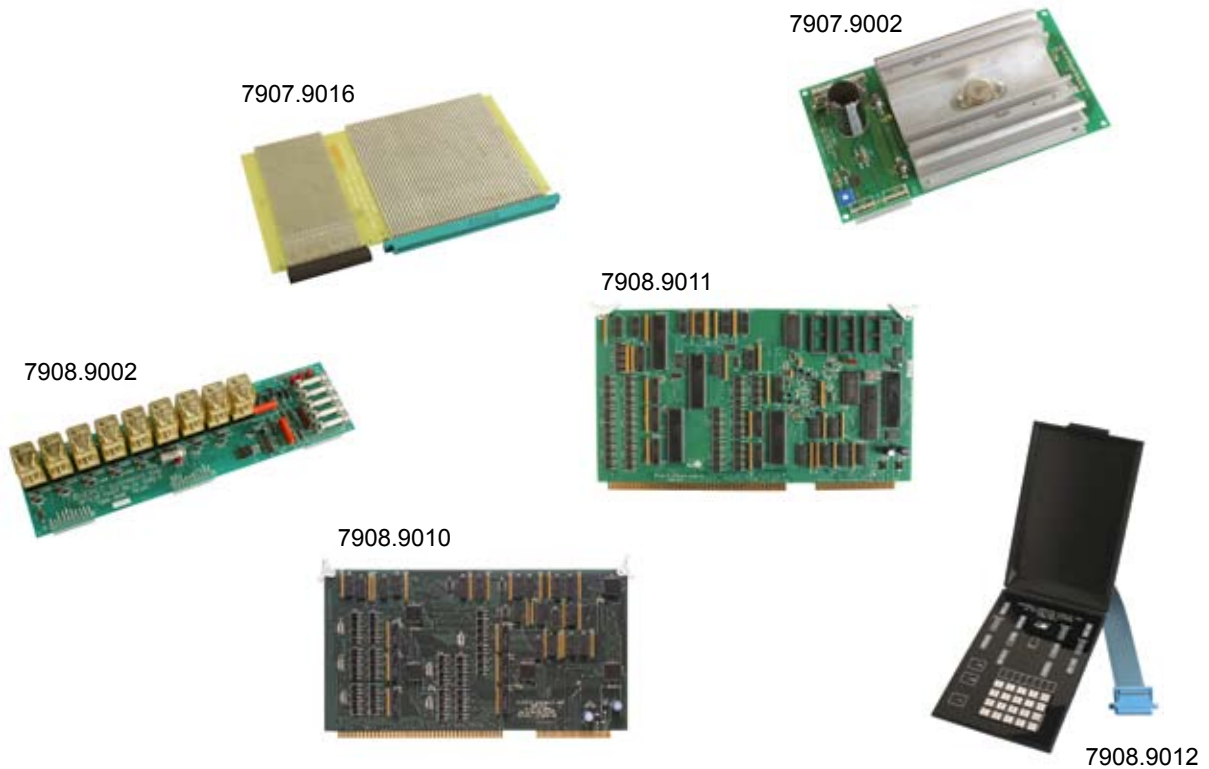
7803.9008



WORLD #	Description	U.S. ELEVATOR #
7803.9001	I/O Board (H4)	146-05630-300
7803.9002	I/O Board (H3) Call Board	146-05635-300
7803.9003	(H2) CPU Board	146-05620-300
7803.9004	(H1) Personality Board	146-05610-300
7803.9005	Function Board	146-05640-300
7803.9006	Harness Board	146-05660-300
7803.9007	Motion Board	146-05650-300
7803.9008	Power Supply	920-27026-000

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WORLD#	Description	U.S. ELEVATOR #
7907.9002	1220/1230 +5 Volt Power Supply	146-05090-300
7907.9016	1220/1230 Extender Board	n/a
7908.9002	1230 Power Relay Board	146-05070-300, 146-05071-400 rev.B
7908.9010	1230 A3/4/5 Option Board	146-05030-300
7908.9011	1230 A2 Computer Board	146-05010-300
7908.9012	1220 / 1230 Portable Comp. Display ...	146-05050-300 rev A
7908.9015	PCD Cable	

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U.S. Elevator

1220

7908.9007



7907.9001



7907.9002



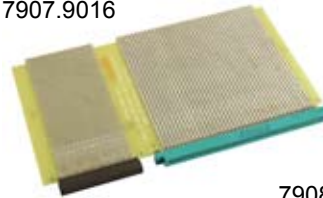
7907.9011



7907.9012



7907.9016



7908.9003



7908.9004



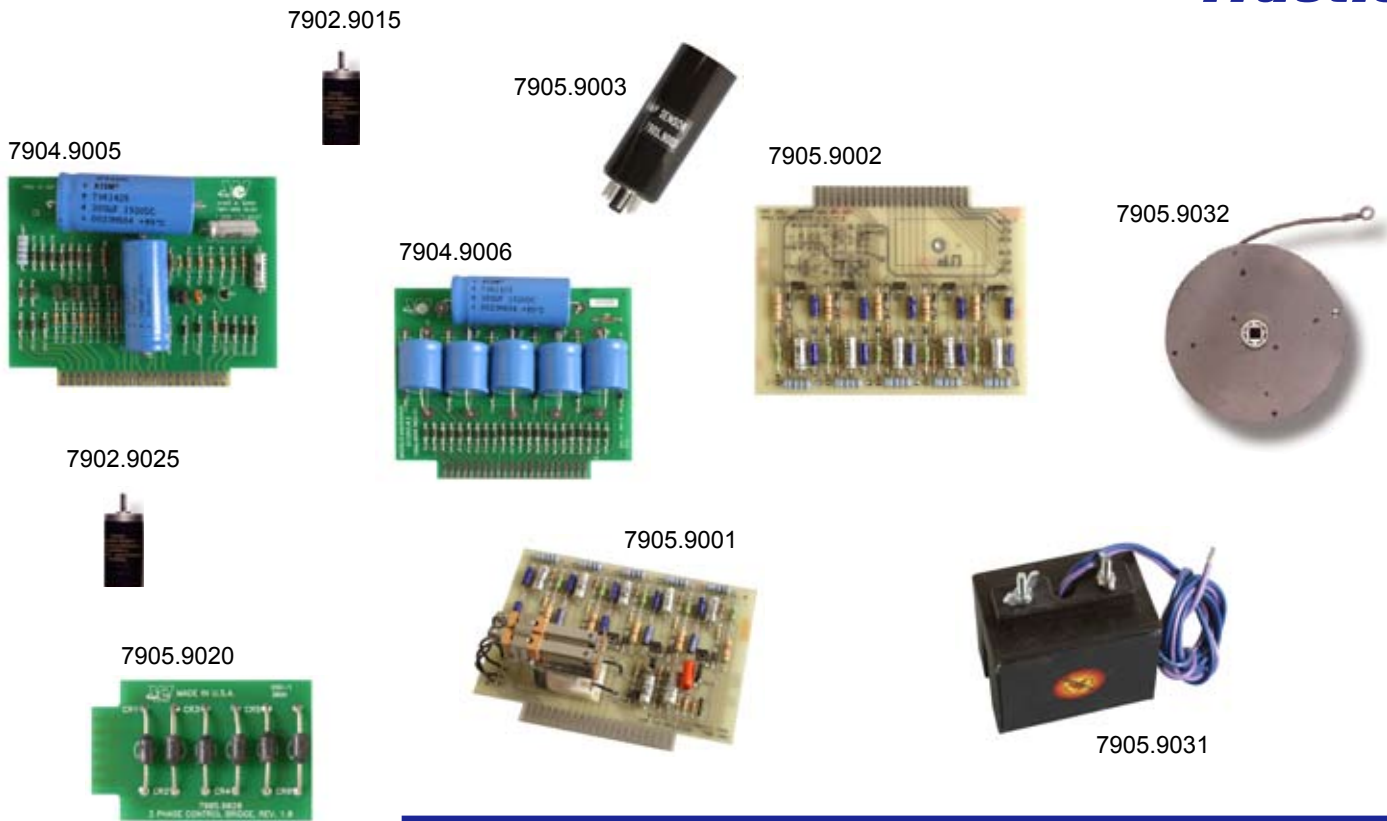
7908.9012



WORLD#	Description	U.S. ELEVATOR #
7907.9001	1220 Power Relay	146-05263-300
7907.9002	1220/1230 +5 Volt Power Supply	146-05090-300
7907.9011	1220 A2 Computer Board	146-05220-300
7907.9012	1220 A3/4/5 Input / Output Board	146-05230-300
7907.9016	1220 / 1230 Extender Board	n/a
7908.9003	1220 Multiplex Transceiver	146-05285-300
7908.9004	1220 Input Buffer	146-05286-300
7908.9007	1220 Output Latch	146-05287-300
7908.9012	1220 / 1230 Portable Comp. Display ...	146-05050-300 rev A

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U.S. Elevator "CPS Rebuild"

WORLD's service department performs a complete mechanical rebuild of the Car Position Sensor box used on many older U.S. Elevator Traction Systems. Please call for pricing.

WORLD also maintains inventory of the "cable gear" drive wheel for the CPS, and can replace this hard-to-find part if necessary.

WORLD#	Description	U.S. ELEVATOR #
7904.9005	Hydro #1 Board.....	144-00016-001, 19016 Model 500 Elevator systems
7904.9006	Hydro #2 Board.....	144-00017-001, 19026 Model 500 Elevator systems
7902.9015	MDU Tach Drive Generator 1/8".....	930-16000-000
7902.9025	MDU Tach Drive Generator 1/4".....	930-16001-000
7905.9001	Cartop Amplifier with Nudge	153-05008-300
7905.9002	Cartop Amplifier without Nudge.....	153-05008-301
7905.9003	Sensor Amplifier (Amp Sensor)	144-00020-001, 02-C1000
7905.9020	3 Phase Control Bridge	144-00040-001
7905.9031	Hoistway Magnetic Switch	940-35011-000
7905.9032	Reel Closer / Spirator	

U.S. Elevator/Amtech

Timers

7901.9002



7901.9001
7901.9003
7901.9005
7901.9007



7901.9008



7901.9004



7901.9006



7901.9009



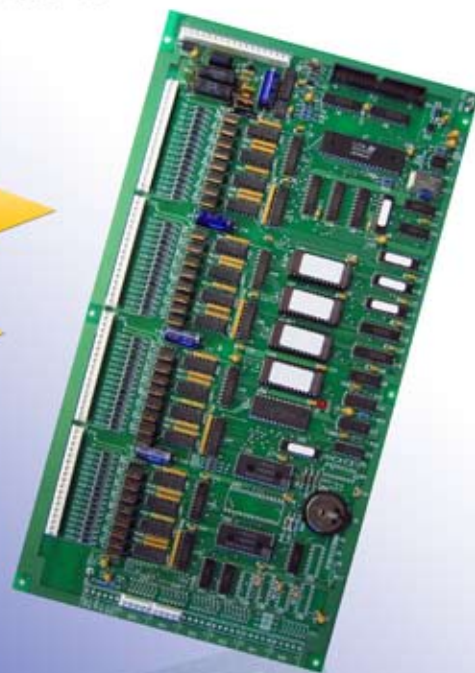
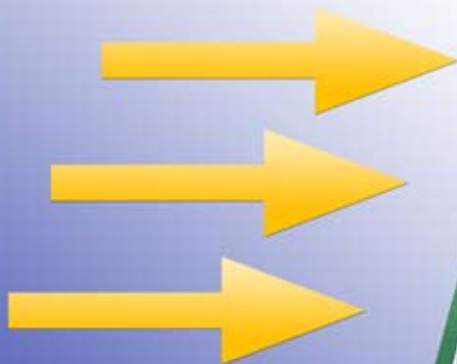
WORLD#	Description	OEM #
7901.9001	.5 - 5 sec. Octal Base Timer, 48V	144-00035-001, 02-03661
7901.9002	.5 - 5 sec. Edgecard Timer, 48V.....	145-05064-200
7901.9003	.5 - 60 sec. Octal Base Timer, 48V.....	144-00039-001, 02-4530
7901.9004	.5 - 60 sec Edgecard Timer, 48V.....	145-05064-302
7901.9005	.5 - 60 sec. Octal Base Timer, 48V..... "With normally open relay"	144-00041-001, 02-04790, 213400-403-P
7901.9006	.5 - 60 sec. Edgecard Timer, 48V..... "With normally open relay"	145-05064-303, 201BNO
7901.9007	.5 - 60 sec. Octal Base Timer, 48V..... "With normally closed relay"	145-00067-001, 02-04791
7901.9008	.5 - 60 sec. Edgecard Timer, 48V..... "With normally closed relay"	145-05064-304, 201BNC
7901.9009	Universal Replacement Edgecard Timer This board replaces 7901.9002, 4, 6 & 8	

Repair Services

Quality Repairs



BEFORE



AFTER

Available Services

- Expert phone support
- Same day repairs[†]
- Overnight repairs^{*}
- 2-day repairs^{*}
- 3-day repairs^{*}
- Standard economical repairs
- Full 90 day warranty on parts and labor
- Archiving of programmed components (EPROM)
- Complete cleaning of water damage boards[#]
- No charge for non-repairable PCB's
- Estimates available for any repair
- Return Authorization not required

^{*}Additional charges may apply

[†]Location specific

[#]Physical damage may be too extensive

How to send in a repair

- Visit www.world-electronics.com/repair.asp and fill out the Service Request form.

OR

- Use our ship-to address:
WORLD electronics
3000 Kutztown Road
Reading, PA 19605
- Enclose your company name, address, phone number, name of person to contact, email address, and ship-to and bill-to address.
- Enclose a P.O. number
- If you need an estimate prior to authorizing a repair, please state so. One of our technicians will call with an estimate based on an evaluation of the board.
- A small description of the problem is always helpful.
- Indicate turnaround time required.

Repair Services



WORLD electronics has the ability to repair thousands of circuit boards found in all major OEMs of the elevator industry. Visit www.world-electronics.com or call **800-523-0427** with your assembly number of any OEM listed below for our repair services.

Agastat
Advance Elevator
Alimak
Allegro
Allen Bradley
Altronix
American
Amicon
Amlift
Amp
Amtech
Armor
Astec
Avtec
Baldor
Baxco
Bucher Hydraulics
C.E.
Cemco
Cheney
Claddagh
Concord
Courion
Curtis
Cutler Hammer
DDP
Delta
Denver (DESI)
Divelbliss
Dover
Dyna Lift
E.C.I.
Electrodyn Systems
Elevator Components
Elevator Control
Elevator Industries
Elevator Intelligence Sys.

Elevator Technology
ENC
EPCO
ESCO
Essex
Fincor
Fujitec
G.A.L.
Garaventa
Garvac
General Electric
General Elevator
Haughton
Hi Tech
Hitachi
Houston Lift
Hyndai
IEE
Innovation Industries
Interface
IPC
Janus
K.M. White
Kinematics
Knickerbocker
Kolher
Kone
K-Tech
Magetek
Maida
Mars Electronics
Mathis
Matrox
MCE
McGill
Memco
Microscan

Microtek
Mid American
Millar
Minnesota
Mitsubishi
Moline (MAC)
Montgomery
Northern
O&K
Omega
Omron
O'Thompson
Otis
Pacific Semi
Payne (FS)
PC Exchange
Peele
Power One
Pulsar
Reliable
Reliance
Reynolds & Reynolds
Rotavele
Salish
Savaria Inc
Schindler
Schumacher
Sealectros
Serge

Siemens
Simplex
Sound
Square D
Standard
Sterling
Sweo
Swift
T.L. Jones
Tamura
Tegna
Telco
Thames Valley
ThyssenKrupp
Topaz
Toshiba
Tricon
Tripp Lite
U.S. Elevator
United Elevator
Universal
Varitron
Vero
Vertical Systems
Vertitron
Virginia Controls
Westinghouse
WICO
Wittur



Schindler/Westinghouse

MPH-1, MPH-2 and 300A

7206.9002



7206.9007



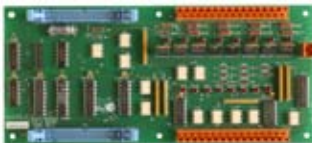
7206.9009



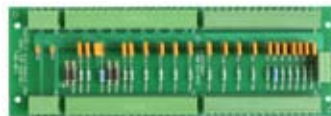
7206.9003



7206.9012



7206.9011



7412.9005



7412.9006



7207.9008



7207.9011



WORLD #	Description	SCHINDLER/WESTINGHOUSE #
7206.9002	MPH Microprocessor (MPH-1) 998C145H24, 7244C82G01 etc.	
7206.9003	RMH Relay Board.....	998C216H15 etc.
7206.9007	HRM Relay Board.....	998C146H11, 12, 22, 998C177H1 etc.
7206.9009	MHC Microprocessor(MPH-2) .	998C187H24 etc.
7206.9011	NSP Assembly	N/A
7206.9012	I/O X Board.....	998C188H11 etc.
7207.9008	Hall/Car Button Board.....	7283C73G01
7412.9005	MIO - Microprocessor Board ..	998C246H1
7412.9006	REL - Relay Board.....	998C216H27
7207.9008	Hall/Car Button Board.....	7283C73G01
7207.9011	Hall/Car Button Board.....	N/A

WORLD replacement microprocessor boards are sold without software. In order to use the board in a controller, it is necessary to retain the memory chips from the original board, or to install archive copies of the originals. **WORLD** strongly recommends that copies of all EPROM memory chips be made for archive purposes as soon as a job is placed under contract. Damaged PC boards can be repaired or replace by **WORLD**, but damaged memory chips can only be replaced by the elevator's original manufacturer.

SEE OUR UNIVERSAL MEMORY COPIER, 7501.9010, ON PAGE 7 OF THIS CATALOG.

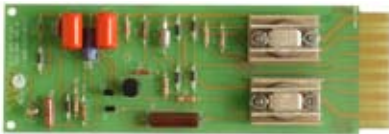
Schindler/Westinghouse

Traction

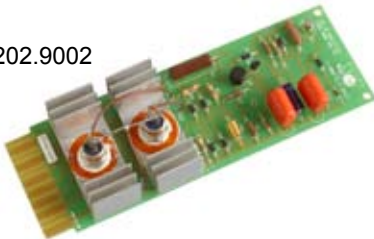
7209.9008



7202.9001



7202.9002



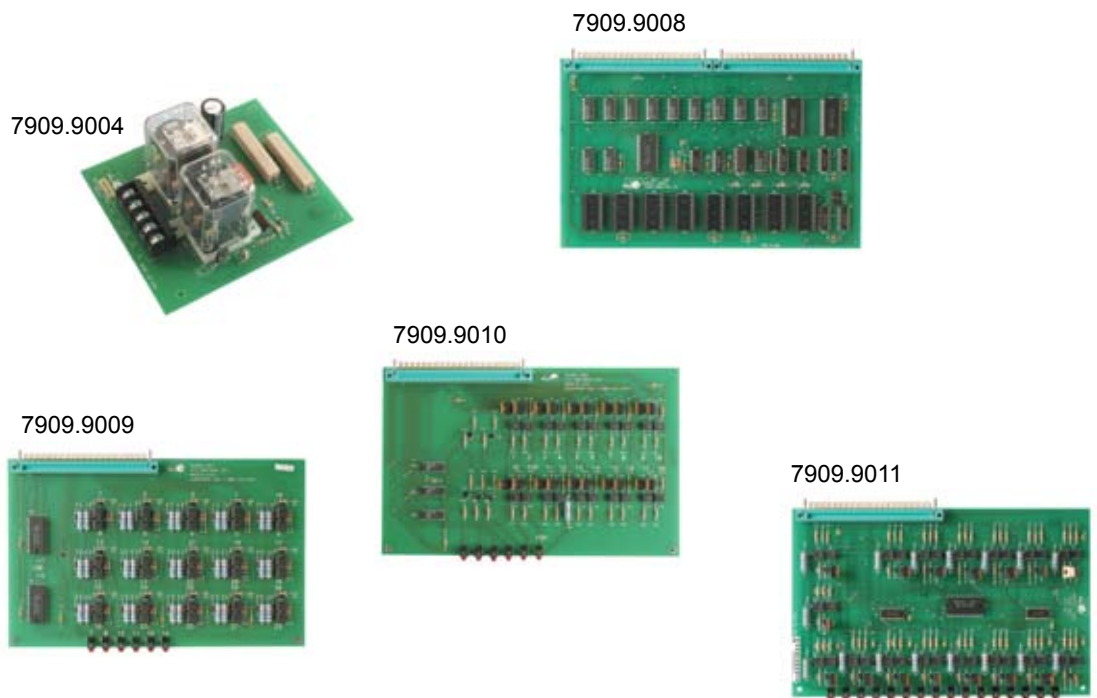
7206.9004



WORLD #	Description	SCHINDLER/WESTINGHOUSE #
7202.9001	ER 9 Amplifier.....	477C977H03, 477C977W03, 196C628H01, etc.
7202.9002	ER 10 Amplifier.....	477C843, etc.
7206.9004	EPOCH Extender	
7209.9008	Epoch Reset Board	EPG XXX

Westinghouse ERL Regulator Rebuild

WORLD's service department can also repair the Westinghouse Regulator's as well as all amplifier boards. Call for pricing.



WORLD #	Description	NORTHERN #
7909.9004	Reverse Phase Relay Board	RP9110
7909.9008	NORMIC CPU Board	100EX
7909.9009	NORMIC Input Board.....	101X
7909.9010	NORMIC Output Board	102X
7909.9011	NORMIC Input/Output Board.....	103X

WORLD replacement microprocessor boards are sold without software. In order to use the board in a controller, it is necessary to retain the memory chips from the original board, or to install archive copies of the originals. **WORLD** strongly recommends that copies of all EPROM memory chips be made for archive purposes as soon as a job is placed under contract. Damaged PC boards can be repaired or replace by **WORLD**, but damaged memory chips can only be replaced by the elevator's original manufacturer.

SEE OUR UNIVERSAL MEMORY COPIER, 7501.9010, ON PAGE 7 OF THIS CATALOG.

Haughton

Model V

7403.9003



7403.9002



7403.9004



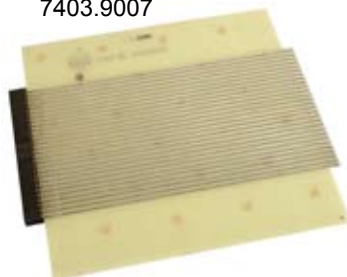
7403.9006



7403.9009



7403.9007



7403.9010



WORLD's service department will completely rebuild Model II, Model III, Model IV and Model V drawer systems within a 24 hour turn-around time.

This overhaul includes the replacement of most system components, decarbonization of inter-connect devices, redressing of wire harnesses, complete test and rebuild or replacement as necessary of all PC boards, power supply, and SCR assembly components, etc., and complete simulator test of the reassembled drawer.

WORLD requests 24 hours notice of your intention, when possible, to ship a drawer, in order to adjust manpower requirements accordingly. Our standard repair department 90 Day Warranty covers all drawer rebuilds.

Please call for pricing.

WORLD #	Description	HAUGHTON #
7403.9002	Amplifier	3-40229-96, 3-40246-49, etc.
7403.9003	EVC Pattern Generator	3-40000-41, etc.
7403.9004	Failure Detector	3-40221-95, etc.
7403.9006	ELC Pattern Generator	3-40000-42, etc.
7403.9007	Extender	n/a
7403.9009	120V SS Stepper Mother	3-40233-59, etc.
7403.9010	SS Stepper Relay	3-40233-63, etc.

7401.9006



7401.9008



7401.9007



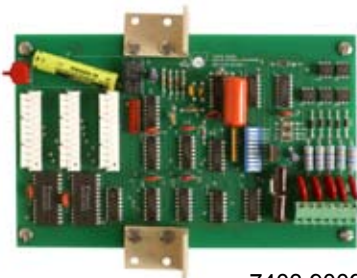
7402.9002



7401.9009



7403.9010



7403.9009

WORLD #	Description	HAUGHTON #
7401.9006	EVC High Voltage	3-40155-91, 3-40155-92, etc.
7401.9007	EVC Amplifier	3-40162-12, etc.
7401.9008	EVC SCR Trigger	3-40162-14, etc.
7401.9009	EVC Excess Error	3-40162-05, etc.
7402.9002	Level Switch Decoder	3-40181-58, etc.
7403.9009	120V SS Stepper Mother	3-40233-59, etc.
7403.9010	SS Stepper Relay	3-40233-63, etc.

Haughton

Model III

7401.9001



7401.9004



7401.9005



7401.9006



7401.9007



7401.9008



7401.9009



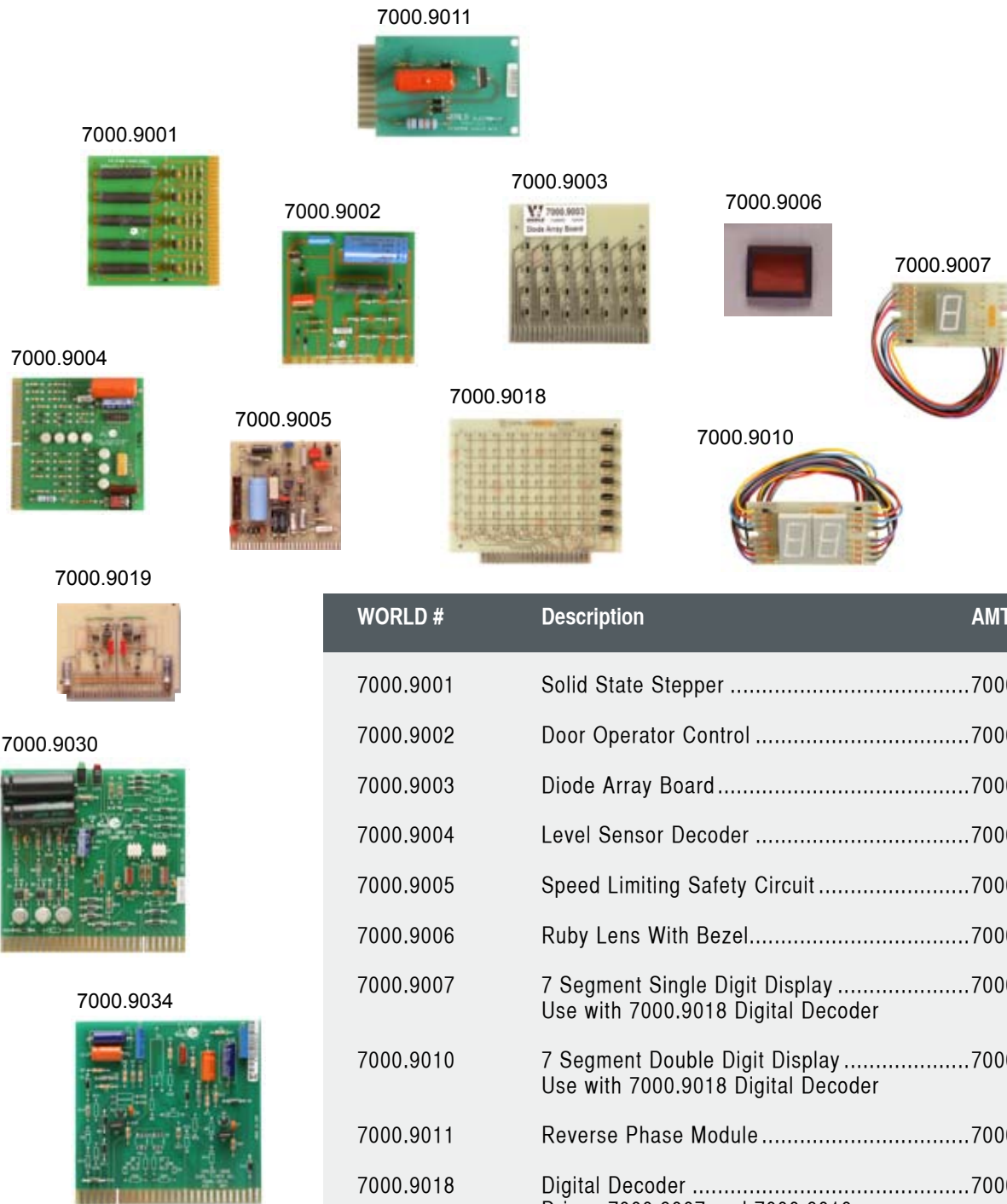
7403.9009



7403.9010



WORLD #	Description	HAUGHTON #
7401.9001	Mother Board	3-40183-99
7401.9004	EVC Level Switch Decoder	3-40143-00, etc.
7401.9005	EVC Pattern Generator	3-40162-3, etc.
7401.9006	EVC High Voltage	3-40155-91, 3-40155-92, etc.
7401.9007	EVC Amplifier	3-40162-12, etc.
7401.9008	EVC SCR Trigger	3-40162-14, etc.
7401.9009	EVC Excess Error	3-40162-05, etc.
7403.9009	120V SS Stepper Mother	3-40233-59, etc.
7403.9010	SS Stepper Relay	3-40233-63, etc.



WORLD #	Description	AMTECH #
7000.9001	Solid State Stepper	7000.9001
7000.9002	Door Operator Control	7000.9002
7000.9003	Diode Array Board	7000.9003
7000.9004	Level Sensor Decoder	7000.9004
7000.9005	Speed Limiting Safety Circuit	7000.9005
7000.9006	Ruby Lens With Bezel.....	7000.9006
7000.9007	7 Segment Single Digit Display	7000.9007
	Use with 7000.9018 Digital Decoder	
7000.9010	7 Segment Double Digit Display	7000.9010
	Use with 7000.9018 Digital Decoder	
7000.9011	Reverse Phase Module	7000.9011
7000.9018	Digital Decoder	7000.9018
	Drives 7000.9007 and 7000.9010	
7000.9019	Counter Board.....	7000.9019
7000.9030	Pic Fod Timer.....	7000.9034
7000.9030	Omega 1000 P.I.C Board	20-1088-01
7000.9034	Omega 1000 Dual Timer Board	20-108804

Amtech Timers See Pg. 35

8300.9001



8300.9002



8300.9014



8300.9011



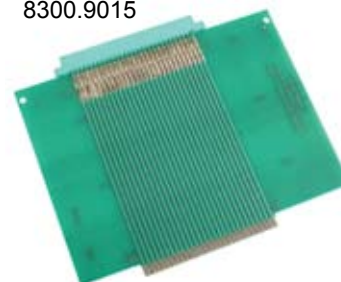
8300.9013



8300.9012



8300.9015



WORLD #	Description	FUJITEC #
8300.9001	DC Output Board.....	IF25D
8300.9002	AC Output Board.....	IF26D
8300.9011	Pattern Generator Board	PG11
8300.9012	Speed Regulator Board	SR15
8300.9013	Detector Board.....	CD7
8300.9014	Phase Shifter Board	PS9
8300.9015	Extender Board	n/a

7701.9025



7701.9026



WORLD #	Description	ARMOR #
7701.9025	120V Armor Button Board.....	N/A
7701.9026	120V Armor Call Display Board.....	N/A

Relay Replacements

7905.9028



7905.9030



7301.9011



7301.9012



7905.9058



7905.9057



7000.9023

WORLD #	Description	RELAY REPLACEMENTS #
7000.9023	PD-1400 A22 6 Pole 48 VDC .. PD1400A22 "H Frame"	
7301.9011	Otis SPL DPDT 120 VAC 2 make, 2 break max breaking 80A @ 240V 3 phase max making 80A @ 240V 3 phase	
7301.9012	Otis SPL DPDT 120 VAC 3 make, 1 break max breaking 80A @ 240V 3 phase max making 80A @ 240V 3 phase	
7905.9028	4 Pole 48 VDC P & B	R10E1Z4V2.5K, R10E1Y4V2.5K
7905.9030	6 Pole 48 VDC P & B	R10E1Z6V1.5K, R10E1Y6V1.5K
7905.9057	4 Pole 48 VDC	
7905.9058	4 Pole 48 VDC Latching	

DPDT and DPST

DPDT



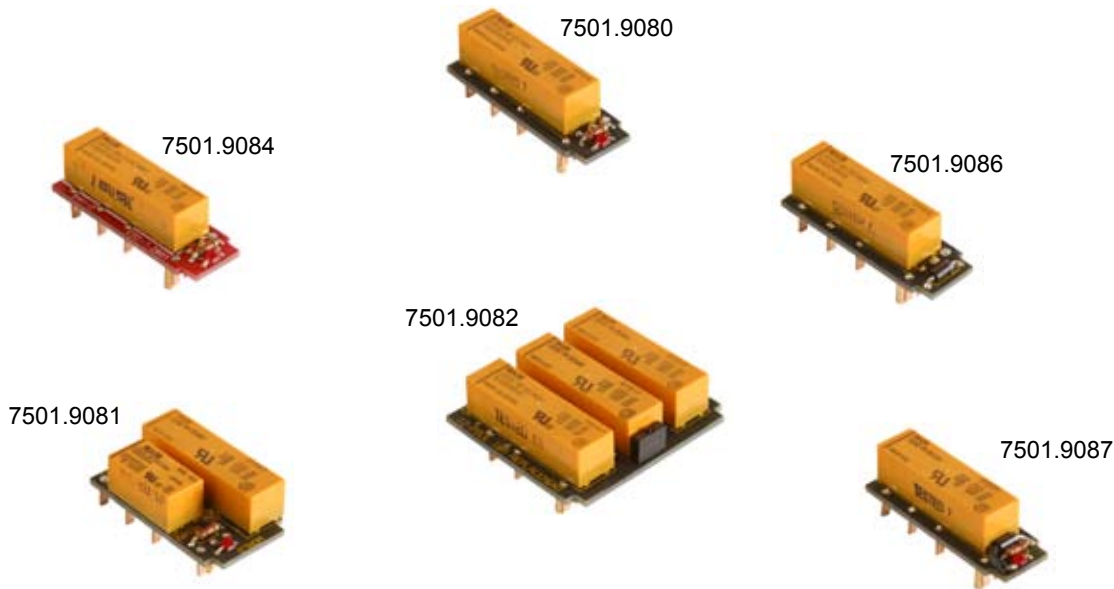
DPST



WORLD stocks the popular, P&B style relays in the listed configurations as replacements for PR and PRD series open frame 30A relays. First quality and very reasonably priced. These relays are stocked by us and often not stocked by P&B! Make WORLD relay replacements a habit!

WORLD #	Description
7110.9001	DPDT 48 Volt 30A DC
7110.9002	DPDT 24 Volt 30A DC
7110.9003	DPDT 115 Volt 30A AC
7110.9004	DPDT 12 Volt 30A DC
7110.9010	DPDT 48 Volt 30A with magnetic blowout DC
7110.9011	DPDT 12 Volt 30A with magnetic blowout DC
7110.9015	DPDT 208 VAC 30A with magnetic blowout AC
7110.9016	DPDT 24 Volt 30A with magnetic blowout DC
7110.9017	DPDT 115 VAC 30A with magnetic blowout AC
7110.9018	DPDT 115 VDC 30A with magnetic blowout DC
7110.9006	DPST 48 Volt 30A DC
7110.9007	DPST 12 Volt 30A DC
7110.9008	DPST 48 Volt 30A with magnetic blowout DC
7110.9013	DPST 120 Volt 30A with magnetic blowout DC
7110.9019	DPST 120 Volt 30A AC
7110.9020	DPST 120 VAC 30A with magnetic blowout AC

IBM Relay Replacements



WORLD #	Description	IBM #
7501.9080	4PDT, 48V.....	769489
7501.9081	6PDT, 48V.....	769019
7501.9082	12PDT, 48V	769488
7501.9084	4PDT Latching, 48V	186685
7501.9086	4PDT with diode, 48V.....	769489D
7501.9087	4PDT with LED & diode, 48V	

WORLD 's IBM replacement relays are better! Here's why!

- Encapsulated gold-plated silver contacts
They won't rust, tarnish or corrode! Perfect for caustic environments!
- LED across the coil to indicate relay is being picked
Immediately visible - what's picked and what's not!
- 2 Ampere rating, plus 2 contacts per pole
Same as the wire-contact IBM originals!
- Economy!
More bang for your buck! A superior product for less than the original!

Ask about our quantity discount pricing.

Note: Sockets are available for all IBM relays and replacements.
 7501.9053 4P + Latching
 7501.9054 6P
 7501.9055 12P
 (not pictured)

IBM Original Relays

7905.9024



7905.9025 & 7905.9029



7905.9026



7905.9027



Note: Sockets are available
for all IBM relays are also
stocked (not pictured).
7501.9053 4 Pole + Latching
7501.9054 6 Pole
7501.9055 12 Pole

WORLD #	Description	IBM #
7905.9024	4 PDT Latching, 48VDC.....	186685
7905.9025	4 PDT, 48VDC	769489
7905.9026	6 PDT, 48VDC	769019
7905.9027	12 PDT, 48VDC	769488
7905.9029	4 PDT, 100VDC	333242

Cross Reference

OEM # WORLD #	PAGE #	OEM # WORLD #	PAGE #	OEM # WORLD #	PAGE #
7000.9001.....7000.9001	44	115296.....7104.9001	19	9852797.....7109.9507	21
7000.9002.....7000.9002	44	115298.....7101.9039	21	9852803.....7109.9508	21
7000.9003.....7000.9003	44	123948.....7101.9006	18	9852943.....7104.9001	19
7000.9004.....7000.9004	44	124519.....7101.9004	18	9855245.....7101.9002	18
7000.9005.....7000.9005	44	124561.....7109.9507	21	9855269.....7101.9010	18
7000.9007.....7000.9007	44	124566.....7109.9508	21	9879675.....7101.9035	21
7000.9010.....7000.9010	44	124566.....7109.9508	21	9879810.....7101.9031	21
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66691.....7101.9008	18	141329.....7103.9002	17	146-05720-300.....7802.9001	30
67179.....7101.9006	18	141335.....7103.9009	17	146-05731-300.....7802.9003	30
67967.....7101.9032	21	141336.....7103.9005	17	146-05735-300.....7802.9004	30
67968.....7101.9044	21	141339.....7103.9001	17	146-05733-300.....7802.9005	30
67981.....7101.9031	21	141456.....7103.9012	17	146-05754-300.....7802.9006	30
68177.....7101.9002	18	141457.....7103.9012	17	146-05750-300.....7802.9008	30
68178.....7101.9004	18	141500.....7103.9007	17	146-05730-300.....7802.9012	30
68180.....7101.9015	18	145557.....7101.9023	20	146-05740-300.....7802.9013	30
68187.....7101.9025	20	6300FX.....7103.9017	17	146-05786-300.....7802.9017	30
68431.....7101.9008	18	6300AA1.....7105.9009	19	146-05785300.....7802.9018	30
68432.....7101.9010	18	6300AE4.....7105.9008	19	146-05787-300.....7802.9019	30
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105251.....7101.9008	18	9805254.....7101.9012	18	144-00035-001.....7901.9001	35
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