Every attempt has been made to ensure that this documentation is as accurate and up-to-date as possible. However, Vertical Express assumes no liability for consequences, directly or indirectly, resulting from any error or omission. The material contained herein is subject to revision. Please report any problems with this manual to Vertical Express, P.O. Box 2019, Memphis, Tennessee 38101.
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Emergency Procedures

Power Failures
In the event of normal power loss, limited elevator service is continued through an automatic transfer to an Emergency Power Operation. When normal power is restored, the elevators will automatically transfer back to normal operation. If there is not a standby power supply, elevators will stop in progress and remain at rest until normal power is restored.

Emergency Power Operation
An emergency power lowering system provides automatic or manual return of an elevator to a predetermined landing during a blackout or single-phase electrical condition. If there is a standby power supply, the elevators will automatically return to the lowest landing and the doors will open, allowing the passengers to exit. The doors will then close, and the elevator will shut down. The elevator will remain at this landing until the power is restored.

Stalled Elevator
If an elevator becomes stalled with passengers aboard, do not attempt a rescue. While all Vertical Express elevators have an emergency exit, this exit should remain locked at all times and used only during an emergency by trained personnel.

Carefully follow these instructions:

1. Establish and maintain communication with the passengers inside the elevator by using the elevator’s phone or intercom, or simply by calling through the doors. Reassure the passengers that steps are being taken to remove them from the elevator, and encourage them to remain calm.

2. Find out if anyone is hurt or ill. If so, arrange for medical assistance or call 911.

3. Find out how many people are in the elevator.

4. Ask passengers to stand clear of the doors.

5. Ask passengers not to smoke.

6. Find out whether the regular elevator lighting or the emergency light is operating. This action will help determine the degree of power failure.

Fire Service
In the event of a fire, never use the elevators to evacuate the building—Use the stairways to get to a safe place. Under no circumstances should anyone except trained firefighters be allowed to use the elevators after a fire has been reported.

Fire Service Operation starts either automatically through the building’s smoke detectors or manually through the Fire Service Keyswitch.

When Fire Service Operation starts, all hall and car calls are canceled, the elevators return to the main floor, and the doors open and remain open. Trained firefighters activate the Fire Service Keyswitch in the elevator and gain control of the car calls. Only authorized personnel are permitted to reset Fire Service Operation, after ensuring there is no fire in the building and the smoke/heat detectors are reset.
Maintenance

Before Calling for Service

To save time and money, check the items listed below before contacting Vertical Express. This action may save the cost of a service call and also place the elevator back in service faster. Consult your local Vertical Express representative for what is covered under the maintenance agreement and any maintenance operations that need to be performed between service calls.

1. Verify that all key operating switches are in normal operating or “RUN” position.

2. Check the hoistway sill and car door sill for debris. Both sills should be cleaned regularly. Foreign objects (gum wrappers, paper clips, etc.) can collect in the sills, preventing the doors from operating properly, which may shut down the elevator’s service.

3. Check for blown fuses or tripped circuit breakers in the machine room.

4. Verify that the elevator is not on Fire Service Operation.

5. Verify that the building has full power from the power company.

All maintenance and adjustment of the elevator should be performed by qualified Vertical Express personnel.

1. Visually inspect the car for burned out lamps, damaged flooring or carpeting, and damage to car fixtures.

2. Ensure that the hoistway door sill and the car sill are clean at all times, as trash in the sill grooves can affect proper door operation.

3. Check the car, the hoistway doors, and the door operator for ease of operation. Any binding or dragging of the doors indicates a need for alignment or adjustment.

4. Ensure that the car doors close completely and are plumb. Excessive looseness may constitute a safety hazard.

5. Ensure that the machine room is well ventilated and that proper clearance is provided for elevator equipment. Do not use the machine room to store any other materials.
Building Maintenance Personnel

1. All building maintenance personnel need to be familiar with the elevator keyswitch functions and pushbutton operations.

2. Only authorized personnel are allowed to use key operations.

3. Before servicing any component, always use a meter to check for voltage. Due to the nature of some internal controller power supplies, voltage may be present on some components even after the input power source has been removed.

4. Before touching any parts of the electronic controller or its peripherals, verify that all voltage is removed.

5. When access to the pit or hoistway is necessary, ensure that safety measures are used to protect the public as well as the servicing personnel.

6. Emergency exits should be locked at all times and used only by emergency personnel.

Cleaning Architectural Finishes

Cleaning and refinishing, other than routine, should be performed by qualified professionals.

Architectural Powder Coating

Clean all surfaces with a soft cloth or a soft natural bristle brush with a non-abrasive, pH neutral solution. Do not use strong solvents such as thinners, or solutions containing chlorinated hydrocarbons, esters, ketones, or any abrasive cleaners.

Plastic Laminate

Routine cleaning with a mild detergent will remove fingerprints, smears, and everyday spills. Do not use abrasives or harsh chemicals.

Stainless Steel

Routine cleaning with a mild detergent will remove fingerprints, smears, and everyday spills. Consumer glass cleaners and stainless steel cleaners may also be used. Do not use abrasives or harsh chemicals.

Muntz (Bronze)

These surfaces are coated with a lacquer finish. To prevent scuffing, use a paste wax (for clear coats finishes) every week. Routine cleaning with a damp, soft cloth will remove spills, smears, and fingerprints. Do not use abrasives or harsh chemicals.
Safety Precautions

IMPORTANT! Read this page before any work is performed on elevator equipment. The procedures contained in this manual are intended for the use of qualified elevator personnel. In the interest of your personal safety and the safety of others, do not attempt any procedure that you are not qualified to perform.

All procedures must be accomplished in accordance with the applicable rules in the latest edition of the National Electrical Code, the latest edition of ASME A17.1, and any governing local codes.

Terms in This Manual

⚠️ CAUTION statements identify conditions that may result in damage to the equipment or other property if improper procedures are followed.

⚠️ WARNING statements identify conditions that may result in personal injury if improper procedures are followed.

General Safety

⚠️ CAUTION Before applying power to the controller, check that all manufacturing wire connections are tight on relays, contactors, fuse blocks, resistors, and terminals on cards and DIN rail terminals. Connections loosened during shipment may cause damage or intermittent operation.

Other specific warnings and cautions are found where applicable and do not appear in this summary. See the Elevator Employee Safety and Accident Prevention Program Manual and the Elevator Industry Field Employees’ Safety Handbook for electrical equipment safety information on installation and service.

Electrical Safety

All wiring must be in accordance with the National Electrical Code and be consistent with all state and local codes.

Use the Proper Fuse To avoid fire hazards, use only a fuse of the correct type, voltage, and current rating. See the job specific drawings sheet (Power Supplies) for fusing information.

Electric shocks can cause personal injury or loss of life. Circuit breakers, switches, and fuses may not disconnect all power to the equipment. Always refer to the wiring diagrams. Whether the AC supply is grounded or not, high voltage will be present at many points.

Printed Circuit Cards Printed circuit boards may be damaged if removed or installed in the circuit while applying power. Before installation and/or removing printed circuit boards, secure all power. Always store and ship printed circuit cards in separate static bags.

Mainline Disconnect Unless otherwise directed, always Turn OFF, Lockout, and Tagout the mainline disconnect to remove power from elevator equipment. Before proceeding, confirm that the equipment is de-energized with a volt meter. Refer to the Elevator Employees’ Safety and Accident Prevention Program Manual for the required procedure.

When Power Is On To avoid personal injury, do not touch exposed electrical connections or components while power is ON.
Electricity Safety (continued)

Test Equipment Safety  Always refer to manufacturers’ instruction book for proper test equipment operation and adjustments.

Buzzer-type continuity testers can damage electronic components. Connection of devices such as voltmeters on certain low level analog circuits may degrade electronic system performance. Always use a voltmeter with a minimum impedance of 1M Ohm/Volt. A digital voltmeter is recommended.

Mechanical Safety

See the Elevator Employees’ Safety and Accident Prevention Program Manual and the Elevator Industry Field Employees’ Safety Handbook for mechanical equipment safety information on installation and service.

Power Unit Fluid System

If working on the power unit fluid system, the static car weight is applying pressure to the jack and valve system and this stored pressure is present at the power unit.

Before working on any component of the power unit, do one of the following:

- Manually lower the car onto the buffers to relieve the stored pressure.
- Close the machine room oil line shutoff valve, and then release the power unit pressure by momentarily opening the manual lowering adjuster valve.

Arrival of Equipment

Receiving  Upon arrival of the equipment, inspect it for damage. Promptly report all visible damage to the carrier. All shipping damage claims must be filed with the carrier.

Storing  During storage in a warehouse or on the elevator job site, precautions should be taken to protect the equipment from dust, dirt, moisture, and temperature extremes.

Asbestos Compliance

Vertical Express elevator personnel will no longer drill or modify any doors with asbestos containing materials (ACM) or possible asbestos containing materials (PACM). All elevator doors manufactured or installed 1980 and earlier will be treated as having ACM/PACM.

Doors with ACM/PACM should be replaced rather than modified. If replacement is not feasible, abatement modifications shall be done by a licensed asbestos abatement company. Vertical Express mechanics will safely stage equipment for the abatement team, or remove the doors and seal them with plastic for delivery or pick up by the asbestos abatement company.

Doors manufactured or installed 1980 and earlier may be modified by Vertical Express employees if a test is conducted by a licensed asbestos company prior to work showing zero evidence of ACM/PACM.

All employees that risk exposure to asbestos will complete the safety department approved asbestos awareness training.

All employees will stop any work that could expose them to ACM/PACM, and immediately contact their supervisor and their safety manager. All exceptions must be approved by the Director of Health and Safety.
Static Protection Guidelines

**IMPORTANT!** Read this page before working with electronic circuit boards.

Elevator control systems use a number of electronic cards to control various functions of the elevator. These cards have components that are extremely sensitive to static electricity and are susceptible to damage by static discharge.

Immediate and long-term operation of an electronic-based system depends upon the proper handling and shipping of its cards. For this reason, manufacturing bases warranty decisions on the guidelines below.

**Handling**
- Cards shipped from manufacturing in separate static bags must remain in the bags until time for installation.
- Anti-static protection devices, such as wrist straps with ground wire, are required when handling circuit boards.
- Cards must not be placed on any surface without adequate static protection.
- Only handle circuit cards by their edges, and only after discharging personal static electricity to a grounding source. Do not touch the components or traces on the circuit card.
- Extra care must be taken when handling individual, discrete components such as EPROMS (which do not have circuit card traces and components for suppression).

**Shipping**
- Complete the included board discrepancy sheet.
- Any card returned to manufacturing must be packaged in a static bag designed for the card.
- Any card returned to manufacturing must be packaged in a shipping carton designed for the card.
- “Peanuts” and styrofoam are unacceptable packing materials.

**Failure to adhere to the above guidelines will void the card warranty!**

**Section Information**

Section numbers (1,2,3) are followed by a dash and a sequential page number. Example: 1-1. Figures and Tables are identified in sequential order, Table 1, Table 2,...etc.

Before starting any procedure in this manual,
- read each procedure carefully and completely.
- give special attention to all Cautions and Warnings (see Safety Precautions for details).
- follow all procedures in the order written.
- make sure that all test equipment, supplies, and parts are on hand. Maintain these in or near the machine room for future use.

All standard safety precautions must be followed on the job site.
ELECTRICAL COMPONENTS

ICON32 Controller Assembly (2102BB)
Power Panels

Electric Motor Starter

- Transformer
- Starter
- 3 Pole Contactor
- Din Rail with Terminal Block
- Ethernet Switch
- CE PI Micro Comm Card
- IOF Card

IEC Contactor

- Transformer
- IEC Contactor
- Relay
- Din Rail with Terminal Block
- Ethernet Switch
- CE PI Micro Comm Card
- IOF Card
Power Panels
(continued)

CAN Repeater

Transformer

Starter

3 Pole IEC Contactor

Single Phase

Transformer

IEC Contactor

Capacitor

Motor

Starter

Relay

Din Rail with Terminal Block

Ethernet Switch

CE PI Micro Comm Card

IOF Card

Din Rail with Terminal Block

Ethernet Switch

CE PI Micro Comm Card

IOF Card
Replacement Parts List - Controller Assembly (2102BB)

For Replacement Cards, see Replacement Cards and Fuses on page 5-20.

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<td></td>
</tr>
<tr>
<td><strong>Miscellaneous</strong></td>
<td></td>
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<tr>
<td>200BWN001</td>
<td>ICON32 Front Inspection Station</td>
<td></td>
</tr>
<tr>
<td>200BWN002</td>
<td>ICON32 Rear Inspection Station</td>
<td></td>
</tr>
<tr>
<td>200BMR001</td>
<td>Selection Harness Extension</td>
<td></td>
</tr>
<tr>
<td>196BMN001</td>
<td>Bracket Assembly, CAN Repeater (no CAN lobby panel)</td>
<td></td>
</tr>
<tr>
<td>196BMN002</td>
<td>Bracket Assembly, CAN Repeater</td>
<td></td>
</tr>
<tr>
<td>196BMK001</td>
<td>Bracket Assembly, MicroComm Card</td>
<td></td>
</tr>
<tr>
<td>541AY1</td>
<td>Ethernet Switch Interface Module</td>
<td></td>
</tr>
<tr>
<td>370AJ13</td>
<td>P24GS Module</td>
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Freight Door Cabinet Assembly (2104AF)

Not Shown:

<table>
<thead>
<tr>
<th>PRINT NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>220DK500</td>
<td>Cable Assembly, Modular, CAT-5 8-8, 6&quot; Long</td>
</tr>
<tr>
<td>220DK1</td>
<td>Cable Assembly, Modular, CAT-5 8-8, 12&quot; Long</td>
</tr>
<tr>
<td>200CCN001</td>
<td>CNA Freight Door Kit</td>
</tr>
</tbody>
</table>

©Vertical Express
Manual Freight Door Cabinet Assembly (2104BL)

Not Shown:
Cover
CNA Freight Door Kit (200CCN001)
Fire Service Cabinet Assembly (2104AE)

Not Shown:
Cover
CNA Freight Door Kit (200CCN001)
Tighten thumb screws just enough to flatten helical lock washers on the thumb screws.
CAN Repeater Cabinet Assembly (2104AP)
Not Shown:
CGA Router Software Kit (200WL3)
Replacement Cards and Fuses

Shown alphabetically by card name.

CAN Repeater Card (6300ADK)

CE PI MicroComm Card (6300ACA)

CN Card (6300VV)
Cards and Fuses
(continued)

CNA Card (6300AAW)

CPUC Card (6300AHT)
Cards and Fuses
(continued)

DPIA Card 6300ADF1

DIN Rail, RJ45 Shielded Jack Breakout Card (6300AJA001)
**IOF Card (6300AHV001)**

<table>
<thead>
<tr>
<th>PRINT NO.</th>
<th>DESCRIPTION</th>
<th>DESIGNATOR</th>
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<tbody>
<tr>
<td>409CP3000</td>
<td>Fuse Panel, 2AG 350V Fast 3.0A</td>
<td>F_AC1SC</td>
</tr>
<tr>
<td>409CW500</td>
<td>Fuse Panel, 2AG 125V Slow 0.50A</td>
<td>F_AC1B, F_EP</td>
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<tr>
<td>409CW3000</td>
<td>Fuse Panel, 2AG 250V Slow 3.0A</td>
<td>F_PS</td>
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<tr>
<td>409CW6000</td>
<td>Fuse Panel, 2AG 250V Slow 6.0A</td>
<td>F_AC1A</td>
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<tr>
<td>409AE7</td>
<td>Fuse, PCB PICO 125V 1A</td>
<td>F10</td>
</tr>
<tr>
<td>409AE13</td>
<td>Fuse, PCB PICO 125V 4A</td>
<td>F_P24</td>
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<tr>
<td>409CW500</td>
<td>Fuse Panel, 2AG 250V Slow 0.50A</td>
<td>Varies by job.</td>
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<tr>
<td>409CW1000</td>
<td>Fuse Panel, 2AG 250V Slow 1.0A</td>
<td>See label inside the controller.</td>
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<tr>
<td>409CW2000</td>
<td>Fuse Panel, 2AG 250V Slow 2.0A</td>
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</tr>
<tr>
<td>409CW4000</td>
<td>Fuse Panel, 2AG 125V Slow 4.0A</td>
<td></td>
</tr>
<tr>
<td>409CW5000</td>
<td>Fuse Panel, 2AG 125V Slow 5.0A</td>
<td></td>
</tr>
</tbody>
</table>

---

*Vertical Express Owner's Manual*
Cards and Fuses
(continued)

L24 Card (6300LL)

LHV Card (6300LN)

LHV 4X4 Card (6300PR)

S24-1 Card (6300VC)

S24-2 Card (6300VL)
Cards and Fuses
(continued)

S24-3 Card (6300ACY)

Serial Interface Card (6300AFM003)
Cards and Fuses
(continued)

Serial PI Card (6300WR)

TSAC Card (6300ACM)

TSMC Card (6300ACK)
Overview of Adjustments, Parameters, and Commands

1. Make all adjustments when the doors are idle.

2. Before the card is reset or powered down, save any adjustment changes to Flash.

3. When the adjustment is a speed value:
   - Increase the value = The door runs faster.
   - Decrease the value = The door runs slower.

4. When the adjustment is an acceleration or deceleration rate value:
   - Increase the value = The door accelerates or decelerates faster.
   - Decrease the value = The door accelerates or decelerates slower.

5. When the adjustment is a distance or point value:
   - Increase the value = The distance or point is further from either the Door Open Limit (DOL) or Door Close Limit (DCL), depending on whether the door is opening or closing.
   - Decrease the value = The distance or point is closer to either the Door Open Limit (DOL) or Door Close Limit (DCL), depending on whether the door is opening or closing.

6. Store door position at 0 on DCL and at Travel (TRV) on DOL.

7. Speeds are (+) in the opening direction and (–) in the closing direction.
The UIT Menu Tree

Block Select Adjustments

- Adjust Car/Group
- Commands Common
- Commands Upload
- Commands Startup
- Commands Group
- UDC Front Door
- UDC Rear Door
- Accord Drive

Block Select Real-Time Motion

- Motion/Position
  - Status
  - Arbirter
  - Speed
- Quick Commands
  - Show Faults*
  - Reset Faults*
  - Reset Run Faults
  - Front Car Call
  - Rear Car Call
  - UP Hall Call
  - DN Hall Call
  - Show Stable Leveling
  - Show I/O
- Only press ENTER to move to the Quick Commands Screen.
- To return to this screen from the Quick Commands Screen, press ESC.

Block Select System Clock

- Time hh:mm:ss
- Date mm:dd:yy

Quick Commands

- Set the Time?
  - UP = Yes
  - DN = No
- Set the Date?
  - UP = Yes
  - DN = No

Block Select UDC Front/Rear Door

See the proper Door Operator Manual for these commands.
Note: The UDC Card must be online and communicating with the controller for these commands to function.

See the proper drive manual for submenu commands.
UIT Menu Tree

(continued)

Block Select
Startup Wizard

ENTER

Start Wizard?
UP = Yes  DN = No

Yes

No

Show Teach Direction
Clear HN Config
Teach Front HN
Teach Rear HN
Config HN/CNs
Verify All CNs
Verify Front HN
Verify Rear HN
Auto Hoistway Scan
Write to Flash
Save Job to USB

Block Select
Inspector Tests

ENTER

FLT-Show Faults?*
RFL-Clear Flts?
TFR-Reset Flts?
SCCB-Bot Call?
SCC2-Flr 2 Call?
SCC3-Flr 3 Call?
SCCT-Top Call?
TST-Cancel Test?
TST1-NTSD Test?
TST2-ETSX Test?
TST3-Buffer Tst?
TST4-Ovrsdp Tst?
TST5-UIM Test?
TST6-TST5 w/OD?
TST7-Ovrsdp Tst?
TST8-Auto Tune Test?
TST9-FTSD Test?
TST10-Load Test?
Encoder Test?
Leveling Test?
SBM-Traction Tst?

* Only appears when faults are present.

Note: Adjustments requiring configuration of SP and NP:
M39, M40, M42, M50, M51,
M52, M66, M82, M100,
J11, J15,
O11, O22,
P11, P28, P29, P33,
Z38, Z39,
FCPC, FCP=,
Hoistway Scan

Auto Hoistway Scan

Note: ?=ENTER to execute.
Door DISC = ON?
P25 = [current value]
P26 = [current value]
? P27 = 0 = [current value]
Install NPT/SPT
FCPC Clear FCPs?
SPT Config?
NPT Config?
Remove NPT/SPT jumpers
Put Car on INCN
TFR?
Run Car onto Bottom Final
FTSD Con60 = ON
Run Car off Bottom Final Limit
FTSD Con60 = OFF
Take car off INCN
TFR?
RFL?
Begin HW learn?
Install NPT/SPT
SPT Config?
NPT Config?
Remove NPT/SPT jumpers
? P27 = 1 = [current value]
Put car on INCN
FTSD Con60 = ON
Run car off Top Final
FTSD Con60 = OFF
Take Car off INCN
TFR?

Note: D26=3 until TST1 Bot & Top Terminals are complete.
LD-16 Door Operator

Features
- Car Door Interlock (CDI)
- Fascia Reduction (Local AHJ)
- Positive Close Clutch
- 3 Phase PM induction motor
- 2 motors, 2 boards
- 2 power supply options: 110VAC, 230VAC
- Communications: CAN, 485, Discrete
- Diagnostic tools: IMS, UIT
- Driven from the hanger rather than the door panels.
- Leading edges of car and hatch doors must now align at closed position.
- Simple learn process requires minimal adjustment with given profile options.

Side-Opening Single-Speed Assembly (3002BG)
Side-Opening Two-Speed Assembly (3002BH)
Center-Opening Single-Speed Assembly (3002BF)
Center-Opening Two-Speed Assembly (3002BJ)
## Replacement Parts (3002BG, 3002BH, 3002BF, 3002BJ)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
<td>9732100</td>
<td>Hanger Roller, D94 x 19 mm with Bushing</td>
</tr>
<tr>
<td>2</td>
<td>9732202</td>
<td>Counter Roller, D30 x 9 mm with Shaft</td>
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<tr>
<td>3</td>
<td>9732305</td>
<td>Buffer Cup</td>
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<tr>
<td>4</td>
<td>9731714</td>
<td>Buffer</td>
</tr>
<tr>
<td>5</td>
<td>9731313</td>
<td>Door Contact</td>
</tr>
<tr>
<td>6</td>
<td>9731416</td>
<td>Door Contact Bridge</td>
</tr>
<tr>
<td>7</td>
<td>9731910</td>
<td>Synchronization Rope, L=5010</td>
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<tr>
<td>8</td>
<td>9732019</td>
<td>Synchronization Rope, L=1750 mm</td>
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<tr>
<td>9</td>
<td>9732317</td>
<td>Couple Contact Bridge</td>
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<tr>
<td>10</td>
<td>9732718</td>
<td>Rope Diverting Pulley, Left</td>
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<tr>
<td>11</td>
<td>9733012</td>
<td>Rope Diverting Pulley, Right</td>
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<tr>
<td>12</td>
<td>9747977</td>
<td>Rubber Puffer</td>
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<td>13</td>
<td>9732240</td>
<td>Fixing Screw (for clutch), M8 x 20 mm</td>
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<td>14</td>
<td>9733310</td>
<td>Belt, L=3000 mm, SS &lt;=42&quot;; SS-C/O,&lt;=48&quot;</td>
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<tr>
<td>15</td>
<td>9731325</td>
<td>Belt, L=3900 mm, All Others &gt;46&quot;</td>
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<td>16</td>
<td>9731428</td>
<td>Belt Diverting Pulley</td>
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<tr>
<td>17</td>
<td>9731726</td>
<td>Belt Diverting Pulley, Left</td>
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<td>18</td>
<td>9731829</td>
<td>Door Drive Control Box - Standard</td>
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<tr>
<td>19</td>
<td>9731921</td>
<td>Door Drive Control Box with CAN Interface</td>
</tr>
<tr>
<td>20</td>
<td>9732123</td>
<td>Motor Unit Midi, C/O, LH</td>
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<tr>
<td>21</td>
<td>9732226</td>
<td>Motor Unit Midi, C/O, RH</td>
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<tr>
<td>22</td>
<td>9732329</td>
<td>Motor Unit Supra, C/O, LH</td>
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<td>9733127</td>
<td>Motor Unit Supra, C/O, RH</td>
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<td>9733220</td>
<td>Motor Unit, Double Coupler Main, LH</td>
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<td>25</td>
<td>9731349</td>
<td>Transformer (Universal Trafo)</td>
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<td>26</td>
<td>9731337</td>
<td>Magnet Switch, L=220 mm</td>
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<td>27</td>
<td>9731430</td>
<td>Magnet</td>
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<td>28</td>
<td>9731933</td>
<td>Belt Fixing Clamp</td>
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<td>9732238</td>
<td>Belt Fixing Clamp, Main Belt</td>
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<td>9732330</td>
<td>Belt Fixing Clamp, Second Belt</td>
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<td>31</td>
<td>9733139</td>
<td>Service Switch, Electrical Box</td>
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<tr>
<td>32</td>
<td>9736918</td>
<td>Wittur Programming Tool (WPT)</td>
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M721 Entrance

Interlock Rollers Mounted to Door Panel

Interlock Rollers Mounted to Door Hanger

SINGLE SPEED

2 SPEED

CENTER OPENING
Signal Fixtures

Traditional Fixtures

- Car Operating Panel
- Intermediate Hall Station with Fire Service Devices
- Terminal Hall Station with Fire Service Signage
- Intermediate Hall Station
- Push Buttons
- Combination Hall Lantern & Dot Matrix Position Indicator
Signal Fixtures

(continued)

Signa4 Fixtures

Car Operating Panel

Intermediate Hall Station with Fire Service Devices and Signage

Intermediate Hall Station

Intermediate Hall Lantern

Intermediate Hall Lantern

Terminal Hall Lantern

Combination Hall Lantern & Dot Matrix Position Indicator

Hall Position Indicator

Push Buttons
Vandal Resistant Fixtures

- Car Operating Panel
- Intermediate Hall Station with Fire Service Devices and Signage
- Terminal Hall Station with Fire Service Device
- Intermediate Hall Station
- Push Buttons
- Terminal Hall Lantern
- Intermediate Hall Lantern
- Combination Hall Lantern & Dot Matrix Position Indicator
MECHANICAL COMPONENTS

Dry Power Unit - AP

7501AE1 shown

Cover

Tank Assembly

Thermostat

Motor

Valve Assembly

Silencer

Pump
Submersible Power Unit - EP

7501AK1 shown
Conventional Jack

Not Shown:
Single-Section Jack (only) Bolt Kit (200BFK001)
Large Jack Hoisting Kit (200ATB3)
Twin Post Jack

- Plunger Guide
- Casing Assembly
- Plunger Assembly
- Wiper
- Retainer Ring
- Retainer Seal
- Internal Oil Seal
- Bearing Strip
Common Elevator Components

- Clutch
- Door Guide
- Pick-Up Roller Assembly
- Door Hanger Assembly
- Mechanical Switch
- Interlock Assembly