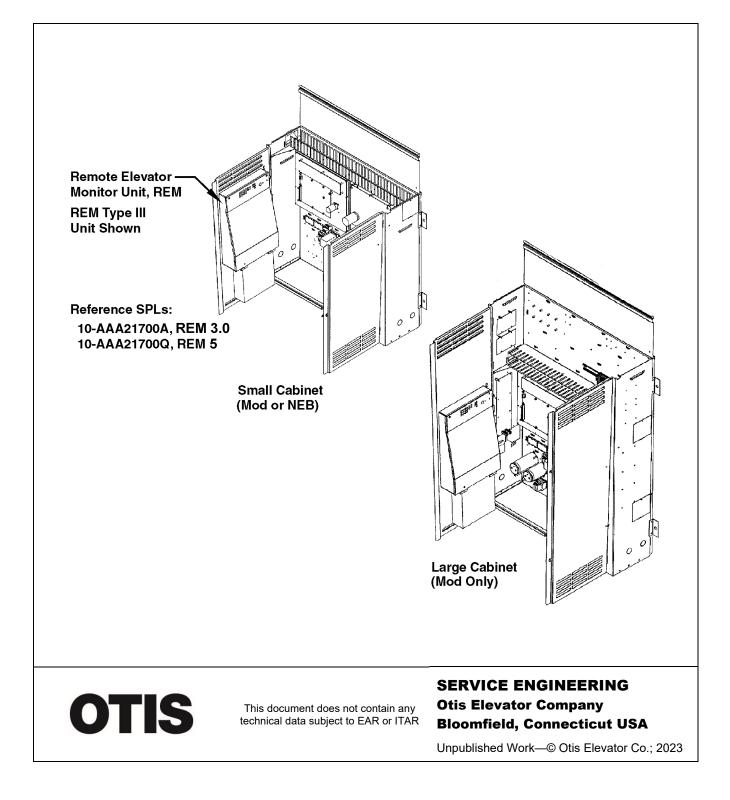
# Hydraulic Controller, Microprocessor Phase II (Unified Mod or NEB)

## **Spare Parts Leaflet**

## 10-AAA21241U

November 15, 2023 / Page 1 of 32



## **Leaflet Description**

This leaflet contains all the spare parts for the phase II (Mod or NEB) 211 hydraulic controller.

#### **Leaflet Revisions**

Date Revised	Subject Matter Expert	Reason for Revision
January 1, 1997	Mike Boles	Phase II leaflet created from old 211 controller leaflet.
July 1, 2001	Mike Boles	Part numbers changes to all solid-state starters and added cable information.
September 5, 2002	Mike Boles	Add new vendor part numbers on page 14.
December 15, 2003	Mike Boles	Added new part no. for contactors (DO, DC) used on some Mod door operators (30 VDC–24 VDC)
October 25, 2005	Mike Boles	Corrected typo on page 33.
January 5, 2008	Jeff Holmes	Updated parts and illustrations.
July 2, 2009	Jeff Holmes	Added AAA718F4; Corrected AAA21421F12 to AAA21421F2 and AAA447BE13 to AAA447BE113.
November 4, 2009	Jeff Holmes	Updated ABA26800ALR to ACA26800ALR; removed parts AAA375CJ5 and 6; updated AAA660B arrangement.
July 17, 2013	Taye Gebrewold	Added NYC Inspection Panel (AAA21255U5)
October 23, 2013	Anh Pham	Added p/n AAA27076FX1 on p. 11
July 16, 2014	Taye Gebrewold	Added p/n AAA646E5 on page 16.
October 12, 2016	Taye Gebrewold	Corrected Ref. 4 on p. 16
January 15, 2020	Ali Bozorgzadeh	Corrected description in Ref. 1 on p. 6
April 14, 2021	Ali Bozorgzadeh	Updated illustration on p. 15
September 21, 2022	Juan Murillo	Updated to include OBSOLESCENCE note on cover
December 7, 2022	Patrick Martin	Removed obsolete note on cover. Added Hydro Enhanced conversion board, I/O board, and CPU board. Added Soft Starter TIP note under pump motor contactors.
November 15, 2023	Patrick Martin	Board AAA21305GV1 added.

#### **Related Drawings**

Drawing No.	Title	Drawing No.	Title
AAA21241U	Assembly and Arrangement for 211 Controller	AAA21241W	Assembly and Arrangement: Door Operator Interface Hydraulic Products
AAA174YG	Cables	ABA26800YK	211 Power Supply Subsystem

(Continued on next page)

# **History (continued)**

## 10-AAA21241U

#### **Related Documents**

Document ID	Title
Document 55974	Hydraulic Elevator Pump Motor Solid State Controller
SPL 10-7151A	AC & DC Contactors Reversing / Y-A Contactors Starters
TIP 6.3.0-34	Wiring Changes Required When Replacing the Existing 30 VDC Contactor with a 24 VDC Contactor (DO, DC, NDG) on the 211 Phase-II Hydro Controller
TIP 1.1.14.0-14	Hydro Enhanced Board

#### **Subject Matter Expert**

Name	Department
Ali Bozorgzadeh	OSC Service Engineering

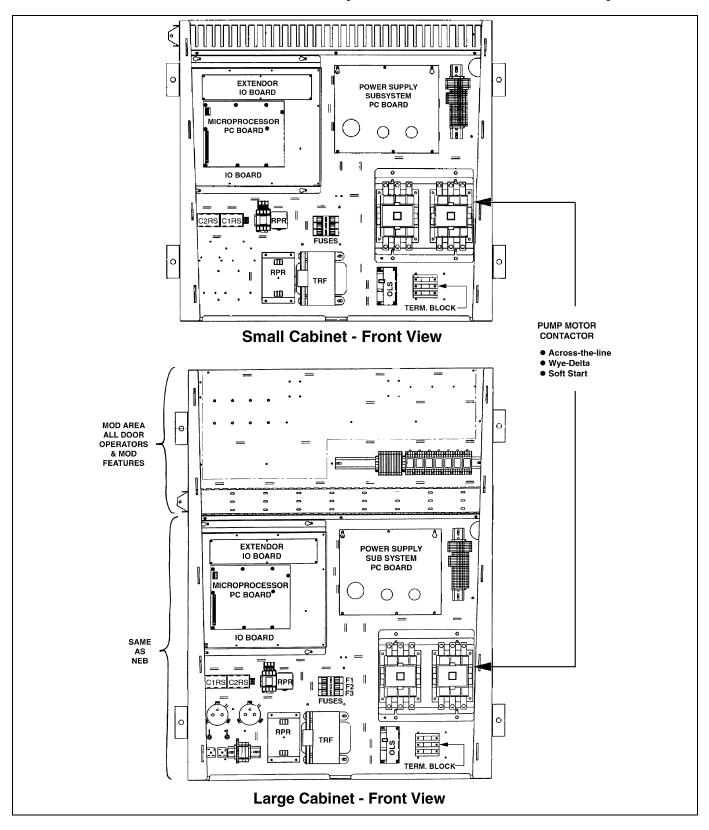
#### About Spare Parts Leaflets...

This document lists the lowest replaceable units (LRUs) for the standard version of the product. The LRUs are chosen by a team of Otis associates representing engineering and manufacturing.

While goal of this document is to make parts identification as easy as possible, the document cannot be all-inclusive. Elevator and escalator contracts classified as "special" or "custom" are not addressed here. For such contracts, please refer to specified information, the contract folder, TIPs, Field Education Articles, Construction Letters, etc. for further information.

If you have any suggestions about this document, please contact the subject matter expert listed on this page.

# Controller: Phase II (Unified Mod or NEB)



# **211 Controller**

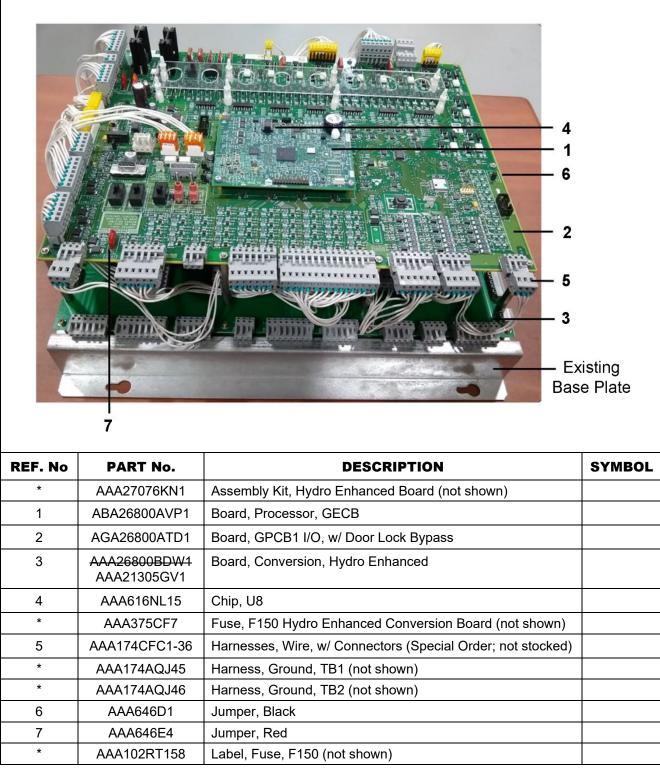
## 10-AAA21241U

		<pre></pre>	
	AAA21241U		
REF. No.	AAA21241U PART No.	DESCRIPTION	SYMBOL
		DESCRIPTION Assembly, Battery (3.0 V) & Cable, for AAA26800TD1	SYMBOL
<b>REF. No.</b>	<b>PART No.</b> AAA21241F2 AAA718F4	Assembly, Battery (3.0 V) & Cable, for AAA26800TD1 Assembly, Battery (3.0 V) & Cable, for AAA26800AKP and ACA26800ALR	SYMBOL
1	<b>PART No.</b> AAA21241F2 AAA718F4 303DH1	Assembly, Battery (3.0 V) & Cable, for AAA26800TD1 Assembly, Battery (3.0 V) & Cable, for AAA26800AKP and ACA26800ALR Block, Terminal, NEMA 4, 80–130 A, Power Input	SYMBOL
1	PART No. AAA21241F2 AAA718F4 303DH1 303DH16	Assembly, Battery (3.0 V) & Cable, for AAA26800TD1 Assembly, Battery (3.0 V) & Cable, for AAA26800AKP and ACA26800ALR Block, Terminal, NEMA 4, 80–130 A, Power Input Block, Terminal, NEMA 2 & 3, Up to 80 A, Power Input	SYMBOL
1	PART No. AAA21241F2 AAA718F4 303DH1 303DH16 AAA174TP4	Assembly, Battery (3.0 V) & Cable, for AAA26800TD1 Assembly, Battery (3.0 V) & Cable, for AAA26800AKP and ACA26800ALR Block, Terminal, NEMA 4, 80–130 A, Power Input	SYMBOL
1	PART No.           AAA21241F2           AAA718F4           303DH1           303DH16           AAA174TP4           ABA26800YA1           ACA26800YA1	Assembly, Battery (3.0 V) & Cable, for AAA26800TD1 Assembly, Battery (3.0 V) & Cable, for AAA26800AKP and ACA26800ALR Block, Terminal, NEMA 4, 80–130 A, Power Input Block, Terminal, NEMA 2 & 3, Up to 80 A, Power Input	SYMBOL  IOBD
1	PART No. AAA21241F2 AAA718F4 303DH1 303DH16 AAA174TP4 ABA26800YA1	Assembly, Battery (3.0 V) & Cable, for AAA26800TD1 Assembly, Battery (3.0 V) & Cable, for AAA26800AKP and ACA26800ALR Block, Terminal, NEMA 4, 80–130 A, Power Input Block, Terminal, NEMA 2 & 3, Up to 80 A, Power Input Cable, Ribbon, 60-Position PC Board, I/O, w/ Door Lock Bypass, See Notes 1 & 2 PC Board, I/O, w/o Door Lock Bypass, See Notes 1 & 2	
1 2 3	PART No.           AAA21241F2           AAA718F4           303DH1           303DH16           AAA174TP4           ABA26800YA1           ACA26800YA2	Assembly, Battery (3.0 V) & Cable, for AAA26800TD1 Assembly, Battery (3.0 V) & Cable, for AAA26800AKP and ACA26800ALR Block, Terminal, NEMA 4, 80–130 A, Power Input Block, Terminal, NEMA 2 & 3, Up to 80 A, Power Input Cable, Ribbon, 60-Position PC Board, I/O, w/ Door Lock Bypass, See Notes 1 & 2	IOBD
1	PART No.           AAA21241F2           AAA718F4           303DH1           303DH16           AAA174TP4           ABA26800YA1           ACA26800YA2           ACA26800YA2	Assembly, Battery (3.0 V) & Cable, for AAA26800TD1 Assembly, Battery (3.0 V) & Cable, for AAA26800AKP and ACA26800ALR Block, Terminal, NEMA 4, 80–130 A, Power Input Block, Terminal, NEMA 2 & 3, Up to 80 A, Power Input Cable, Ribbon, 60-Position PC Board, I/O, w/ Door Lock Bypass, See Notes 1 & 2 PC Board, I/O, w/o Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and Limited I/O, w/o RSL Interface,	IOBD IOBD IOBD
1 2 3	PART No.           AAA21241F2           AAA718F4           303DH1           303DH16           AAA174TP4           ABA26800YA1           ACA26800YA2           ACA26800YA2           ACA26800YA2	Assembly, Battery (3.0 V) & Cable, for AAA26800TD1 Assembly, Battery (3.0 V) & Cable, for AAA26800AKP and ACA26800ALR Block, Terminal, NEMA 4, 80–130 A, Power Input Block, Terminal, NEMA 2 & 3, Up to 80 A, Power Input Cable, Ribbon, 60-Position PC Board, I/O, w/ Door Lock Bypass, See Notes 1 & 2 PC Board, I/O, w/o Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and Limited I/O, w/o RSL Interface, See Note 3 PC Board, Integrated Microprocessor and I/O, w/ Door Lock Bypass, See Notes 1 & 2	IOBD
1 2 3	PART No.           AAA21241F2           AAA718F4           303DH1           303DH16           AAA174TP4           ABA26800YA1           ACA26800YA2           ACA26800YA2           ACA26800AKP           ABA26800AKP	Assembly, Battery (3.0 V) & Cable, for AAA26800TD1 Assembly, Battery (3.0 V) & Cable, for AAA26800AKP and ACA26800ALR Block, Terminal, NEMA 4, 80–130 A, Power Input Block, Terminal, NEMA 2 & 3, Up to 80 A, Power Input Cable, Ribbon, 60-Position PC Board, I/O, w/ Door Lock Bypass, See Notes 1 & 2 PC Board, I/O, w/o Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and Limited I/O, w/o RSL Interface, See Note 3 PC Board, Integrated Microprocessor and I/O, w/ Door Lock Bypass, See	IOBD IOBD IOBD
1 2 3	PART No.           AAA21241F2           AAA718F4           303DH1           303DH16           AAA174TP4           ABA26800YA1           ACA26800YA1           ABA26800YA2           ACA26800YA2           ACA26800YA2           ACA26800ALR1           ABA26800ALR1           ABA26800ALR1	Assembly, Battery (3.0 V) & Cable, for AAA26800TD1 Assembly, Battery (3.0 V) & Cable, for AAA26800AKP and ACA26800ALR Block, Terminal, NEMA 4, 80–130 A, Power Input Block, Terminal, NEMA 2 & 3, Up to 80 A, Power Input Cable, Ribbon, 60-Position PC Board, I/O, w/ Door Lock Bypass, See Notes 1 & 2 PC Board, I/O, w/o Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and Limited I/O, w/o RSL Interface, See Note 3 PC Board, Integrated Microprocessor and I/O, w/ Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and I/O, w/ Door Lock Bypass, See	IOBD IOBD IOBD IOBD
1 2 3	PART No.           AAA21241F2           AAA718F4           303DH1           303DH16           AAA174TP4           ABA26800YA1           ACA26800YA2           ACA26800YA2           ACA26800ALR1           ABA26800ALR1           ABA26800ALR1           ACA26800ALR1	Assembly, Battery (3.0 V) & Cable, for AAA26800TD1 Assembly, Battery (3.0 V) & Cable, for AAA26800AKP and ACA26800ALR Block, Terminal, NEMA 4, 80–130 A, Power Input Block, Terminal, NEMA 2 & 3, Up to 80 A, Power Input Cable, Ribbon, 60-Position PC Board, I/O, w/ Door Lock Bypass, See Notes 1 & 2 PC Board, I/O, w/o Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and Limited I/O, w/o RSL Interface, See Note 3 PC Board, Integrated Microprocessor and I/O, w/ Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and I/O, w/o Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and I/O, w/o Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and I/O, w/o Door Lock Bypass, See	IOBD IOBD IOBD IOBD IOBD
1 2 3 4	PART No.           AAA21241F2           AAA718F4           303DH1           303DH16           AAA174TP4           ABA26800YA1           ACA26800YA1           ACA26800YA2           ACA26800YA2           ACA26800ALR1           ABA26800ALR1           ABA26800ALR1           ACA26800ALR1           ABA26800ALR2           ACA26800ALR3	Assembly, Battery (3.0 V) & Cable, for AAA26800TD1 Assembly, Battery (3.0 V) & Cable, for AAA26800AKP and ACA26800ALR Block, Terminal, NEMA 4, 80–130 A, Power Input Block, Terminal, NEMA 2 & 3, Up to 80 A, Power Input Cable, Ribbon, 60-Position PC Board, I/O, w/ Door Lock Bypass, See Notes 1 & 2 PC Board, I/O, w/ Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and Limited I/O, w/o RSL Interface, See Note 3 PC Board, Integrated Microprocessor and I/O, w/ Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and I/O, w/ Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and I/O, w/o Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and I/O, w/o Door Lock Bypass, See Notes 1 & 2	IOBD IOBD IOBD IOBD IOBD IOBD IOBD XIO1 XIO2
1 2 3 4 5	PART No.           AAA21241F2           AAA718F4           303DH1           303DH16           AAA174TP4           ABA26800YA1           ACA26800YA1           ACA26800YA2           ACA26800YA2           ACA26800ALR1           ABA26800ALR1           ACA26800ALR1           ACA26800ALR1           ACA26800ALR2           ACA26800ALR3           ACA26800ALR3	Assembly, Battery (3.0 V) & Cable, for AAA26800TD1 Assembly, Battery (3.0 V) & Cable, for AAA26800AKP and ACA26800ALR Block, Terminal, NEMA 4, 80–130 A, Power Input Block, Terminal, NEMA 2 & 3, Up to 80 A, Power Input Cable, Ribbon, 60-Position PC Board, I/O, w/ Door Lock Bypass, See Notes 1 & 2 PC Board, I/O, w/ Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and Limited I/O, w/o RSL Interface, See Note 3 PC Board, Integrated Microprocessor and I/O, w/ Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and I/O, w/ Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and I/O, w/o Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and I/O, w/o Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and I/O, w/o Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and I/O, w/o Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and I/O, w/o Door Lock Bypass, W/ Remote MRDS Panel. See Note 1 PC Board, I/O Extender (#1 mod & discrete fixtures)	IOBD IOBD IOBD IOBD IOBD IOBD XIO1
1 2 3 4 4 5 6	PART No.           AAA21241F2           AAA718F4           303DH1           303DH16           AAA174TP4           ABA26800YA1           ACA26800YA1           ACA26800YA2           ACA26800YA2           ACA26800ALR1           ABA26800ALR1           ACA26800ALR1           ACA26800ALR1           ACA26800ALR2           ACA26800ALR3           ACA26800ALR3           ACA26800ALR3	Assembly, Battery (3.0 V) & Cable, for AAA26800TD1 Assembly, Battery (3.0 V) & Cable, for AAA26800AKP and ACA26800ALR Block, Terminal, NEMA 4, 80–130 A, Power Input Block, Terminal, NEMA 2 & 3, Up to 80 A, Power Input Cable, Ribbon, 60-Position PC Board, I/O, w/ Door Lock Bypass, See Notes 1 & 2 PC Board, I/O, w/ Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and Limited I/O, w/o RSL Interface, See Note 3 PC Board, Integrated Microprocessor and I/O, w/ Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and I/O, w/ Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and I/O, w/o Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and I/O, w/o Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and I/O, w/o Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and I/O, w/o Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and I/O, w/o Door Lock Bypass, See Notes 1 & 2 PC Board, Integrated Microprocessor and I/O, w/o Door Lock Bypass, W/ Remote MRDS Panel. See Note 1 PC Board, I/O Extender (#1 mod & discrete fixtures) PC Board, I/O Extender (#2 rear door & serial fixtures)	IOBD IOBD IOBD IOBD IOBD IOBD IOBD XIO1 XIO2

**NOTES 1** When replacing ACA26800ALR PC board, provide the machine number to the Customer Service. If there is contract-specific software (e.g., freight doors), remember to provide software information when placing your order.

- 2 The A\*A26800ALR1, 2, 3 boards are only supported through the OSC Repair Return program for as long as supply of key components last. It is recommended and will be required when supply is exhausted, to upgrade this board, see p. 6.
- **3** PC board AAA26800AKP is obsolete and requires a new controller modernization.
- **4** The ACA26800YA1 and ACA26800ALR1 I/O PCB replacement is the Hydro enhanced board assembly shown on p. 6. See TIP 1.1.14.0-14, *Hydro Enhanced Board*.

# Hydro Enhanced Board Assembly 10-AAA21241U



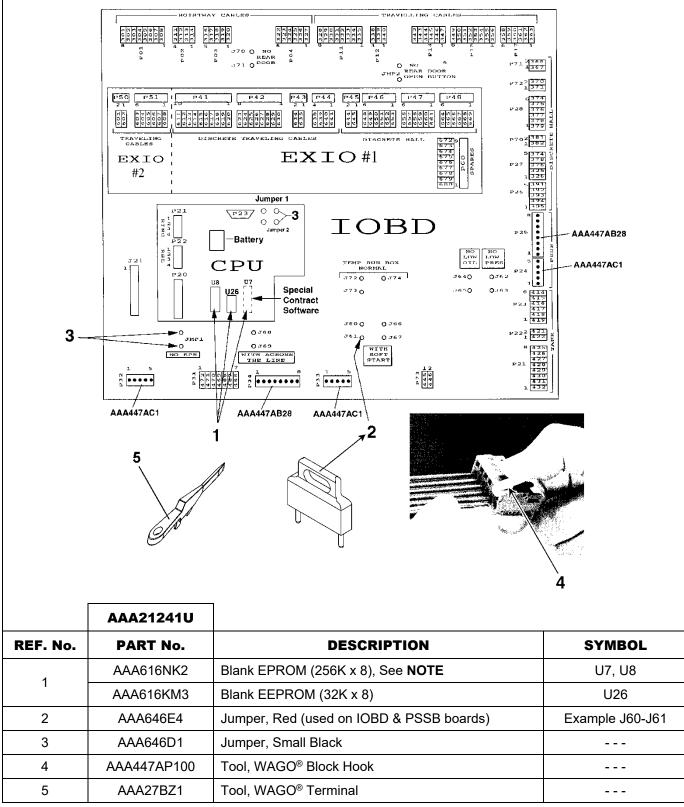
**NOTE 1:** The GECB must be programmed. The baseline software is the same baseline used on the Hydro Accel CPU board (p/n AP131438DAH).

**NOTE 2:** When replacing the GECB board, remember to remove the U8 chip from the existing GECB board and place it in the new GECB board. The existing U8 chip has all the existing contract parameters.

**NOTE 3:** See TIP 1.1.14.0-14.

 Page 6
 November 15, 2023

## **211 Controller**



**NOTE:** Contact OSC for the latest software ---30270--- baseline.

## **I/O Board Connectors**



AAA447BE17P22Pump Motor (Red)AAA447BE16P23Tank Sensors (Red)AAA447BE15P26Inspection (Brown)AAA447BE14P27 (two or more cars in group)Intercar Connection (Brown)AAA447BE12P28Smoke Sensors (Brown)AAA447BE13P70Spare - ModAAA447BE10P71Spare - Mod (Red)AAA447BE11P72Spare - Mod (Brown)AAA447BE12P43Discrete COPAAA447BE45P44Discrete COPAAA447BE48P44Discrete CPIAAA447BE49P45Discrete Hall	AAA21241U			
AAA447BE2P02Bottom Limits (Red)AAA447BE3P03Door Link (Red)AAA447BE4P04Hall Fixtures (Brown)AAA447BE5P11Position System (Brown)AAA447BE58P12Front Door Op. (Blue)AAA447BE59P14Inspection (Orange)AAA447BE9P17Gate Switches (Red)AAA447BE18P21Tank Valves (Red)AAA447BE16P23Tank Sensors (Red)AAA447BE15P26Inspection (Brown)AAA447BE14P27Intercar Connection (Brown)AAA447BE12P28Smoke Sensors (Brown)AAA447BE13P70Spare - ModAAA447BE10P71Spare - Mod (Red)AAA447BE11P72Spare - Mod (Red)AAA447BE45P41Discrete COPAAA447BE46P42Discrete COPAAA447BE47P43Discrete COPAAA447BE48P44Discrete CPIAAA447BE49P45Discrete HallAAA447BE51P47Discrete HallAAA447BE51P47Discrete HallAAA447BE51P47Discrete Hall	PART No.	SYMBOL	CONDITION	DESCRIPTION
AAA447BE3P03Door Link (Red)AAA447BE4P04Hall Fixtures (Brown)AAA447BE5P11Position System (Brown)AAA447BE58P12Front Door Op. (Blue)AAA447BE59P14Inspection (Orange)AAA447BE9P15Front I-MOTION (Vellow)AAA447BE18P21Tank Valves (Red)AAA447BE17P22Pump Motor (Red)AAA447BE16P23Tank Sensors (Red)AAA447BE15P26Inspection (Brown)AAA447BE12P28Smoke Sensors (Brown)AAA447BE13P70Spare - ModAAA447BE10P71Spare - Mod (Red)AAA447BE11P72Spare - Mod (Red)AAA447BE12P41Discrete COPAAA447BE45P41Discrete COPAAA447BE46P42Discrete COPAAA447BE47P43Discrete COPAAA447BE48P44Discrete CPIAAA447BE49P45Discrete HallAAA447BE50P46Discrete HallAAA447BE51P47Discrete Hall	AAA447BE1	P01	Top Limits (Red)	
AAA447BE4P04Hall Fixtures (Brown)AAA447BE5P11Position System (Brown)AAA447BE58P12Front Door Op. (Blue)AAA447BE59P14Inspection (Orange)AAA447BE60P15Front i-MOTION (Yellow)AAA447BE18P21Tank Valves (Red)AAA447BE16P22Pump Motor (Red)AAA447BE15P26Inspection (Brown)AAA447BE12P28Smoke Sensors (Brown)AAA447BE13P70Spare - ModAAA447BE10P71Spare - Mod (Red)AAA447BE11P72Spare - Mod (Red)AAA447BE12P43Discrete COPAAA447BE44P43Discrete COPAAA447BE45P44Discrete COPAAA447BE48P44Discrete COPAAA447BE49P45Discrete HallAAA447BE51P47Discrete HallAAA447BE51P47Discrete Hall	AAA447BE2	P02	Bottom Limits (Red)	
AAA447BE5P11Position System (Brown)AAA447BE58P12Front Door Op. (Blue)AAA447BE59P14Inspection (Orange)AAA447BE60P15Front i-MOTION (Yellow)AAA447BE9P17Gate Switches (Red)AAA447BE18P21Tank Valves (Red)AAA447BE17P22Pump Motor (Red)AAA447BE16P23Tank Sensors (Red)AAA447BE15P26Inspection (Brown)AAA447BE12P28Smoke Sensors (Brown)AAA447BE13P70Spare - ModAAA447BE10P71Spare - Mod (Red)AAA447BE11P72Spare - Mod (Red)AAA447BE45P41Discrete COPAAA447BE46P42Discrete COPAAA447BE47P43Discrete COPAAA447BE48P44Discrete CPIAAA447BE50P46Discrete HallAAA447BE51P47Discrete HallAAA447BE51P47Discrete Hall	AAA447BE3	P03	Door Link (Red)	•
AAA447BE58P12Front Door Op. (Blue)AAA447BE59P14Inspection (Orange)AAA447BE60P15Front i-MOTION (Yellow)AAA447BE60P15Front i-MOTION (Yellow)AAA447BE79P17Gate Switches (Red)AAA447BE18P21Tank Valves (Red)AAA447BE16P22Pump Motor (Red)AAA447BE15P26Inspection (Brown)AAA447BE12P28Smoke Sensors (Brown)AAA447BE13P70Spare - ModAAA447BE10P71Spare - Mod (Red)AAA447BE11P72Spare - Mod (Red)AAA447BE12P41Discrete COPAAA447BE45P41Discrete COPAAA447BE46P42Discrete COPAAA447BE47P43Discrete COPAAA447BE48P44Discrete CPIAAA447BE49P45Discrete HallAAA447BE50P46Discrete HallAAA447BE51P47Discrete HallAAA447BE51P47Discrete Hall	AAA447BE4	P04	Hall Fixtures (Brown)	
AAA447BE58P12Front Door Op. (Blue)AAA447BE59P14Inspection (Orange)AAA447BE60P15Front i-MOTION (Yellow)AAA447BE9P17Gate Switches (Red)AAA447BE18P21Tank Valves (Red)AAA447BE16P23Tank Sensors (Red)AAA447BE15P26Inspection (Brown)AAA447BE12P28Smoke Sensors (Brown)AAA447BE13P70Spare - ModAAA447BE10P71Spare - Mod (Red)AAA447BE11P72Spare - Mod (Red)AAA447BE12P43Discrete COPAAA447BE45P41Discrete COPAAA447BE46P42Discrete COPAAA447BE48P44Discrete CPIAAA447BE49P45Discrete HallAAA447BE50P46Discrete HallAAA447BE51P47Discrete HallAAA447BE51P47Discrete Hall	AAA447BE5	P11	Position System (Brown)	
AAA447BE59P14Inspection (Orange)AAA447BE60P15Front i-MOTION (Yellow)AAA447BE9P17Gate Switches (Red)AAA447BE18P21Tank Valves (Red)AAA447BE17P22Pump Motor (Red)AAA447BE16P23Tank Sensors (Red)AAA447BE15P26Inspection (Brown)AAA447BE12P28Smoke Sensors (Brown)AAA447BE13P70Spare - ModAAA447BE10P71Spare - Mod (Red)AAA447BE11P72Spare - Mod (Red)AAA447BE19P73Spare - Mod (Red)AAA447BE45P41Discrete COPAAA447BE46P42Discrete COPAAA447BE47P43Discrete COPAAA447BE48P44Discrete CPIAAA447BE49P45Discrete HallAAA447BE50P46Discrete HallAAA447BE51P47Discrete Hall	AAA447BE58	P12	- , ,	
AAA447BE9P17Gate Switches (Red)AAA447BE18P21Tank Valves (Red)AAA447BE17P22Pump Motor (Red)AAA447BE16P23Tank Sensors (Red)AAA447BE15P26Inspection (Brown)AAA447BE14P27 (two or more cars in group)Intercar Connection (Brown)AAA447BE12P28Smoke Sensors (Brown)AAA447BE13P70Spare - ModAAA447BE10P71Spare - Mod (Red)AAA447BE11P72Spare - Mod (Red)AAA447BE19P73Spare - Mod (Red)AAA447BE45P41Discrete COPAAA447BE47P43Discrete COPAAA447BE48P44Discrete CPIAAA447BE50P46Discrete HallAAA447BE51P47Discrete HallAAA447BE51P47Discrete Hall	AAA447BE59	P14	,	
AAA447BE18P21Tank Valves (Red)Connectors for I/O BoaAAA447BE17P22Pump Motor (Red)(IOBD)AAA447BE16P23Tank Sensors (Red)(IOBD)AAA447BE15P26Inspection (Brown)(IOBD)AAA447BE14P27 (two or more cars in group)Intercar Connection (Brown)(IOBD)AAA447BE12P28Smoke Sensors (Brown)AAA447BE12P28Smoke Sensors (Brown)AAA447BE13P70Spare - ModAAA447BE10P71Spare - Mod (Red)AAA447BE11P72Spare - Mod (Brown)AAA447BE45P41Discrete COPAAA447BE46P42Discrete COPAAA447BE47P43Discrete COPAAA447BE48P44Discrete CPIAAA447BE49P45Discrete HallAAA447BE50P46Discrete HallAAA447BE51P47Discrete HallAAA447BE51P47Discrete HallAAA447BE51P47Discrete Hall	AAA447BE60	P15	Front i-MOTION (Yellow)	
AAA447BE17P22Pump Motor (Red)AAA447BE16P23Tank Sensors (Red)AAA447BE15P26Inspection (Brown)AAA447BE14P27 (two or more cars in group)Intercar Connection (Brown)AAA447BE12P28Smoke Sensors (Brown)AAA447BE13P70Spare - ModAAA447BE10P71Spare - Mod (Red)AAA447BE11P72Spare - Mod (Red)AAA447BE13P70Spare - Mod (Red)AAA447BE14P72Spare - Mod (Red)AAA447BE11P72Spare - Mod (Red)AAA447BE45P41Discrete COPAAA447BE46P42Discrete COPAAA447BE47P43Discrete COPAAA447BE48P44Discrete COPAAA447BE49P45Discrete HallAAA447BE50P46Discrete HallAAA447BE51P47Discrete HallI/O Board (EXIO)I/O Board (EXIO)	AAA447BE9	P17	Gate Switches (Red)	
AAA447BE16P23Tank Sensors (Red)AAA447BE15P26Inspection (Brown)AAA447BE14P27 (two or more cars in group)Intercar Connection (Brown)AAA447BE12P28Smoke Sensors (Brown)AAA447BE20P31Run Bug (Temp. Operation)AAA447BE13P70Spare - ModAAA447BE10P71Spare - Mod (Red)AAA447BE11P72Spare - Mod (Red)AAA447BE19P73Spare - Mod (Red)AAA447BE45P41Discrete COPAAA447BE46P42Discrete COPAAA447BE47P43Discrete COPAAA447BE48P44Discrete CPIAAA447BE49P45Discrete HallAAA447BE50P46Discrete HallAAA447BE51P47Discrete Hall	AAA447BE18	P21	Tank Valves (Red)	Connectors for I/O Board
AAA447BE15P26Inspection (Brown)AAA447BE14P27 (two or more cars in group)Intercar Connection (Brown)AAA447BE12P28Smoke Sensors (Brown)AAA447BE20P31Run Bug (Temp. Operation)AAA447BE13P70Spare - ModAAA447BE10P71Spare - Mod (Red)AAA447BE11P72Spare - Mod (Brown)AAA447BE19P73Spare - Mod (Red)AAA447BE45P41Discrete COPAAA447BE46P42Discrete COPAAA447BE47P43Discrete COPAAA447BE48P44Discrete CPIAAA447BE49P45Discrete HallAAA447BE51P47Discrete Hall	AAA447BE17	P22	Pump Motor (Red)	(IOBD)
AAA447BE14P27 (two or more cars in group)Intercar Connection (Brown)AAA447BE12P28Smoke Sensors (Brown)AAA447BE20P31Run Bug (Temp. Operation)AAA447BE13P70Spare - ModAAA447BE10P71Spare - Mod (Red)AAA447BE11P72Spare - Mod (Brown)AAA447BE19P73Spare - Mod (Red)AAA447BE45P41Discrete COPAAA447BE46P42Discrete COPAAA447BE47P43Discrete COPAAA447BE48P44Discrete CPIAAA447BE49P45Discrete HallAAA447BE50P46Discrete HallAAA447BE51P47Discrete Hall	AAA447BE16	P23	Tank Sensors (Red)	
AAA447BE14(two or more cars in group)Intercar Connection (Brown)AAA447BE12P28Smoke Sensors (Brown)AAA447BE12P31Run Bug (Temp. Operation)AAA447BE13P70Spare - ModAAA447BE10P71Spare - Mod (Red)AAA447BE11P72Spare - Mod (Brown)AAA447BE19P73Spare - Mod (Red)AAA447BE45P41Discrete COPAAA447BE46P42Discrete COPAAA447BE47P43Discrete COPAAA447BE48P44Discrete CPIAAA447BE49P45Discrete HallAAA447BE50P46Discrete HallAAA447BE51P47Discrete Hall	AAA447BE15	P26	Inspection (Brown)	
AAA447BE20P31Run Bug (Temp. Operation)AAA447BE13P70Spare - ModAAA447BE10P71Spare - Mod (Red)AAA447BE11P72Spare - Mod (Brown)AAA447BE19P73Spare - Mod (Red)AAA447BE45P41Discrete COPAAA447BE46P42Discrete COPAAA447BE47P43Discrete COPAAA447BE48P44Discrete CPIAAA447BE49P45Discrete HallAAA447BE50P46Discrete HallAAA447BE51P47Discrete Hall	AAA447BE14		Intercar Connection (Brown)	
AAA447BE13P70Spare - ModAAA447BE10P71Spare - Mod (Red)AAA447BE11P72Spare - Mod (Brown)AAA447BE19P73Spare - Mod (Red)AAA447BE45P41Discrete COPAAA447BE46P42Discrete COPAAA447BE47P43Discrete COPAAA447BE48P44Discrete CPIAAA447BE49P45Discrete HallAAA447BE51P47Discrete Hall	AAA447BE12	P28	Smoke Sensors (Brown)	
AAA447BE10P71Spare - Mod (Red)AAA447BE11P72Spare - Mod (Brown)AAA447BE19P73Spare - Mod (Red)AAA447BE45P41Discrete COPAAA447BE46P42Discrete COPAAA447BE47P43Discrete COPAAA447BE48P44Discrete CPIAAA447BE49P45Discrete HallAAA447BE50P46Discrete HallAAA447BE51P47Discrete Hall	AAA447BE20	P31	Run Bug (Temp. Operation)	
AAA447BE11P72Spare - Mod (Brown)AAA447BE19P73Spare - Mod (Red)AAA447BE45P41Discrete COPAAA447BE46P42Discrete COPAAA447BE47P43Discrete COPAAA447BE48P44Discrete COPAAA447BE49P45Discrete HallAAA447BE50P46Discrete HallAAA447BE51P47Discrete Hall	AAA447BE13	P70	Spare - Mod	
AAA447BE19P73Spare - Mod (Red)AAA447BE45P41Discrete COPAAA447BE46P42Discrete COPAAA447BE47P43Discrete COPAAA447BE48P44Discrete CPIAAA447BE49P45Discrete HallAAA447BE50P46Discrete HallAAA447BE51P47Discrete Hall	AAA447BE10	P71	Spare - Mod (Red)	
AAA447BE45P41Discrete COPAAA447BE46P42Discrete COPAAA447BE47P43Discrete COPAAA447BE48P44Discrete CPIAAA447BE49P45Discrete HallAAA447BE50P46Discrete HallAAA447BE51P47Discrete Hall	AAA447BE11	P72	Spare - Mod (Brown)	
AAA447BE46P42Discrete COPAAA447BE47P43Discrete COPAAA447BE48P44Discrete CPIAAA447BE49P45Discrete HallAAA447BE50P46Discrete HallAAA447BE51P47Discrete Hall	AAA447BE19	P73	Spare - Mod (Red)	
AAA447BE47P43Discrete COPAAA447BE48P44Discrete CPIAAA447BE49P45Discrete HallAAA447BE50P46Discrete HallAAA447BE51P47Discrete Hall	AAA447BE45	P41	Discrete COP	
AAA447BE48P44Discrete CPIAAA447BE49P45Discrete HallAAA447BE50P46Discrete HallAAA447BE51P47Discrete HallI/O Board (EXIO)	AAA447BE46	P42	Discrete COP	
AAA447BE49P45Discrete HallAAA447BE50P46Discrete HallConnectors for ExtendAAA447BE51P47Discrete HallI/O Board (EXIO)	AAA447BE47	P43	Discrete COP	
AAA447BE50P46Discrete HallConnectors for ExtendAAA447BE51P47Discrete HallI/O Board (EXIO)	AAA447BE48	P44	Discrete CPI	
AAA447BE51 P47 Discrete Hall I/O Board (EXIO)	AAA447BE49	P45	Discrete Hall	
	AAA447BE50	P46	Discrete Hall	Connectors for Extender
AAA447BE52 P48 Discrete Hall	AAA447BE51	P47	Discrete Hall	I/O Board (EXIO)
	AAA447BE52	P48	Discrete Hall	
AAA447BE61 P50 Rear Doors	AAA447BE61	P50	Rear Doors	
AAA447BE62 P51 Rear i-MOTION	AAA447BE62	P51	Rear i-MOTION	
AAA447BE53 P60 Spare - Mod	AAA447BE53	P60	Spare - Mod	

**NOTE:** Illustration on page 5 for connector location.

## **Pump Motor Contactors**

NOTE: SPL 10-7151A, AC & DC Contactors Reversing / Y-∆ Contactors Starters, for the lower level replacement parts for the contactor assemblies listed below. Use NEMA size number to identify the contactor.

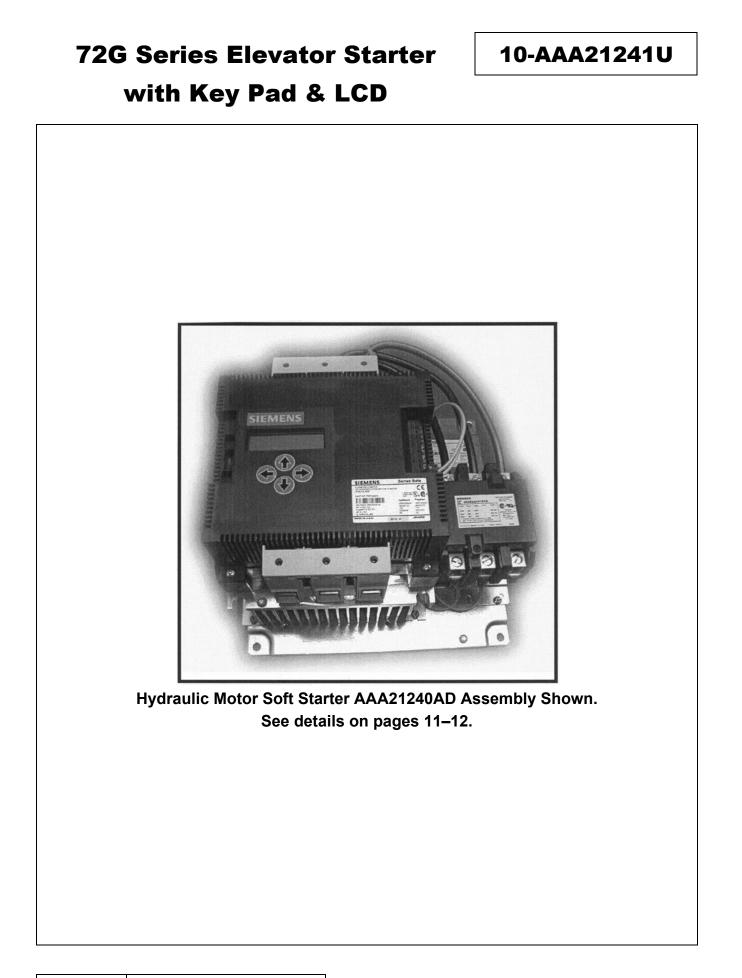


		ACROSS-THE-LINE	CONTACTORS	(SXL)	
REF. No.	PART No.	DESCRIPTION	MOTOR HP	LINE VOLTAGE	SYMBOL
	AAA638R7		> 40.8 < 00	440-600 VAC	
1	AAA638R107	Contactor, NEMA 2 AC	$\geq$ 10 & $\leq$ 30	208–240 VAC	PM
·	AAA638A10 AAA638A110	Contactor, NEMA 3 AC	<b>&gt;</b> 30 & ≤ 50	440–600 VAC	
	     	WYE-DELTA CON		2 S)	
	T			<b>5</b> )	
REF. No.	PART No.	DESCRIPTION	MOTOR HP	LINE VOLTAGE	SYMBOL
	AAA638W7 AAA638W107	NEMA 2 Contactor	≥ 10 & ≤ 30	440–600 VAC	

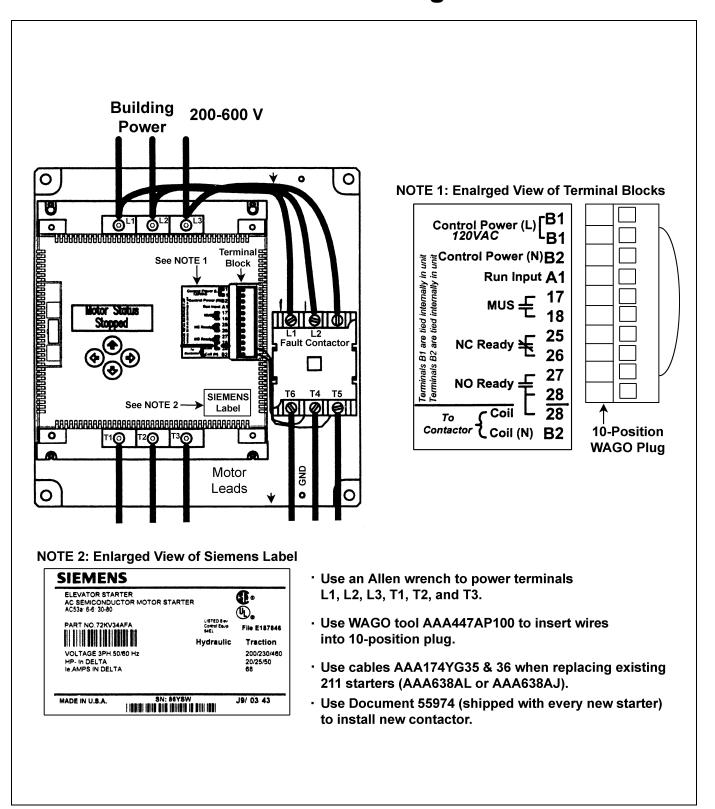
	AAA638W107	NEMA 2 Contactor	≥ 10 & ≤ 30	440–600 VAC	
2	AAA638D7	NEMA 3 Contactor		208–240 VAC	L-M
2	AAA638D107	NEWA 3 CONTACTOR		440–600 VAC	L-1VI
	AAA638F12 AAA638F107	NEMA 4 Contactor	<b>&gt;</b> 30 & ≤ 50	208–240 VAC	

**NOTE:** Recommend upgrading to a Soft Starter.

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# Instructions for Replacing Existing 211 Starters



# Soft Starter Assemblies AAA21240AD1 through AD10

HP at 200- 208 V	HP at 220- 240 V	HP at 440- 480 V	Max. Operating Current (AMPS)	Overload Range (AMPS)	Existing Starter P/N	New Starter P/N	Replacement Fault Contactor	Replacement Fault Contact Cover
5	7.5	15	22	5–22	AAA638AJ1 AAA638AL1	AAA638AL1 AAA21240AD5		
7.5	10	25	35	9-35	AAA638AJ2 AAA638AL2	AAA638AL2 AAA21240AD5		
10	15	30	42	10–42	AAA638AJ3 AAA638AL3	AAA638AL3 AAA21240AD5	AAA21240AD39	
15	20	40	55	14–55	AAA638AJ4 AAA638AL4	AAA638AL4 AAA21240AD5	AAA27076FX1	AAA21240AD44
20	25	50	68	17–68	AAA638AJ5 AAA638AL5	AAA638AL5 AAA21240AD5		
25	30	60	80	20–80	AAA638AL6	AAA638AL6 AAA21240AD6		
30	40	75	105	26–105	AAA638AJ6 AAA638AJ7 AAA638AL7	AAA638AL7 AAA21240AD7	AAA21240AD40	
40	50	100	130	32–130	AAA638AJ8 AAA638AL8	AAA638AL8 AAA21240AD8	AAA21240AD40	AAA21240AD45

AAA638AJ9

AAA638AL9

AAA638AJ10\*\*

AAA638AL10

AAA638AL9

AAA21240AD9

AAA638AL10

AAA21240AD10

**NOTE 1:** Building power supply 200–240 V for use with 6 or 12 lead Wye-Delta wound motors only.

NOTE 2: Current limit % of overload current is 150%-450% (set at 230%).

156

252

**NOTE 3:** Consult OtisRole if you have a Wye-configured pump motor with 3 or 9 leads.

39-156

63–252

\*\* Replacement fan AAA21240AD47.

125

- - -

60

100

50

75

Page 12 November 15, 2023

AAA21240AD41

AAA21240AD43

AAA21240AD46

10-AAA21241U

# Soft Starter Assemblies AAA21240AD11 Through AD19

HP at 440- 480 V	HP at 575- 600 V	at Max. Decrating Current	Overload Range (AMPS)	Existing Starter P/N	Voltage	New Starter P/N	Replacement Fault Contactor	Replacement Fault Contact Cover
15	20	<b>(AWFS)</b> 22	5-22	AA638AJ11	440-480	AAA21240AD5	AAA21240AD39	AAA21240AD44
					575-600	AAA21240AD14	AA21240AD40	AAA21240AD45
25	30	35	9–35	AA638AJ12	440-480	AAA21240AD5	AAA21240AD39	AAA21240AD44
					575-600	AAA21240AD14	AAA21240AD40	AAA21240AD45
30	40	42	10-42	AA638AJ13	440-480	AAA21240AD5	AAA21240AD39	AAA21240AD44
					575-600	AAA21240AD14	AAA21240AD40	AAA21240AD45
40	50	55	14-55	AA638AJ14	440-480	AAA21240AD5	AAA21240AD39	AAA21240AD44
					575-600	AAA21240AD14	AAA21240AD40	AAA21240AD45
50	60	68	17–68	AA638AJ15	440-480	AAA21240AD5	AAA21240AD39	AAA21240AD44
					575-600	AAA21240AD15	AAA21240AD9	AAA21240AD45
15	20	22	5–22	AA638AL11		AAA21240AD5	AAA21240AD39	AAA21240AD44
25	30	35	9–35	AAA638AL12		AAA21240AD5		
30	40	42	10–42	AAA638AL13		AAA21240AD13	AAA21240AD40	
40	50	55	14–55	AAA638AL14		AAA21240AD14		
50	60	68	17–68	AAA638AL15		AAA21240AD15		AAA21240AD45
60	75	80	20–80	AAA638AJ16 AAA638AL16		AAA21240AD16	AAA21240AD9	
75	100	105	26–105	AAA638AJ17 AAA638AL17		AAA21240AD17		
100	125	130	32–130	AAA638AJ18 AAA638AL18		AAA21240AD18	AAA21240AD42	AAA21240AD46
125	150	156	39–195	AAA638AJ19 AAA638AL19		AAA21240AD19		

**NOTE 1:** Building power supply 440–600 V for use with 6 or 12 lead Wye-Delta wound motors only.

NOTE 2: Current limit % of overload current is 150%-450% (set at 230%).

**NOTE 3:** Consult Otis Role if you have a Wye-configured pump motor with 3 or 9 leads.

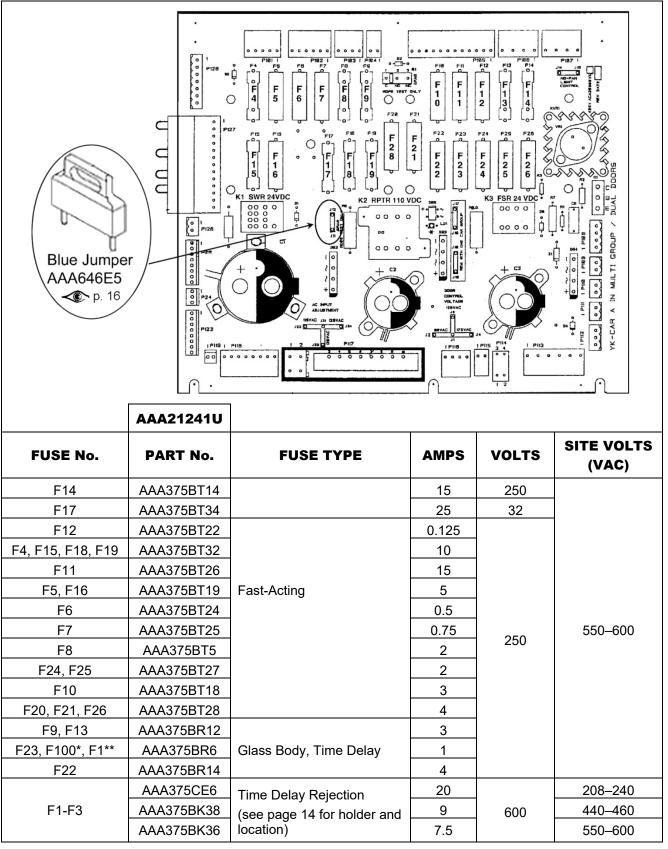
## **Overload and Transformer**

## 10-AAA21241U

	AAA21241U	O       EXTENDOR ID BOARD         O       EXTENDOR ID BOARD         ID BOARD       POWER SUPPLY SUBSYSTEM PC BOARD         ID BOARD       ID I			
REF. No.	PART No.	DESCRIPTIO	N		SYMBOL
1	AAA660B107           AAA660B207           AAA660B108           AAA660B208           AAA660B109           AAA660B209           AAA660B110           AAA660B110           AAA660B110           AAA660B110           AAA660B110           AAA660B110           AAA660B111           AAA660B111           AAA660B111	Relay, Overload, 10–40 A Relay, Overload, 10–40 A Relay, Overload, 25–100 A Relay, Overload, 25–100 A Relay, Overload, 50–200 A			OLS
2	AAA225JT1         AAA225JT2         AAA225JT3         AAA225JT4         AAA225JT5         AAA225JT6         AAA225JT7         AAA225JT8	4 or Less Openings, Front 120 DC Door Only, w/Tank Heater, 790 VA 7 or Less Openings, w/o Tank Heater, Front 120 VDC Door Only, Simplex Controller, 570 VA Front & Rear 120 VDC Door Motors, w/ or w/o Tank Heater,	208–240 VAC 440–480 VAC 550–600 VAC 208–240 VAC 440–480 VAC 550–600 VAC 208–240 VAC 440–480 VAC	60 Hz	TRF
	AAA225JT9         AAA225JT10         AAA225JT11         AAA225JT12         AAA225JT13         AAA225JT14         AAA225JT15	All Mod 120 VAC or 220 VDC Front & Rear Door Operators, All Openings, 1302 VA	550–600 VAC 208–240 VAC 440–480 VAC 550–600 VAC 208–240 VAC 208–240 VAC 360–380 VAC 400–430 VAC	50 Hz	

 Page 14
 November 15, 2023

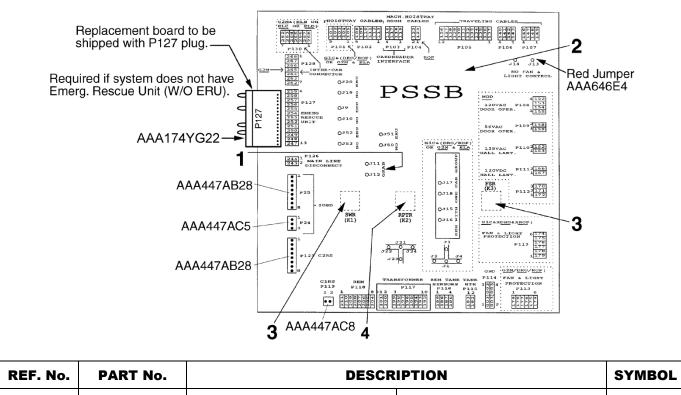
O       EXTENDOR IO BOARD       POWER SUPPLY SUB SYSTEM PC BOARD         MICROPROCESSOR PC BOARD       I       I         IO       I	
3 1 2 4 NOTE: See page 15 for spare fuses.	
NOTE: See page 15 for spare fuses. AAA21241U	YMBOL
NOTE: See page 15 for spare fuses. AAA21241U	YMBOL
NOTE: See page 15 for spare fuses.         AAA21241U         REF. No.       PART No.         DESCRIPTION       S	
NOTE: See page 15 for spare fuses.         NOTE: See page 15 for spare fuses.         AAA21241U       Example 100 (000 (000 (000 (000 (000 (000 (000	<b>YMBOL</b> RPR
NOTE: See page 15 for spare fuses.         NOTE: See page 15 for spare fuses.         AAA21241U       Example 100 (100 (100 (100 (100 (100 (100 (100	
NOTE: See page 15 for spare fuses.         NOTE: See page 15 for spare fuses.         AAA21241U       AAA21241U         REF. No.       PART No.       DESCRIPTION       Si         1       AAA630AC1       Relay, Reverse-Phase, Site Supply = 208–240 VAC (60 Hz)       Si         1       AAA630AC2       Relay, Reverse-Phase, Site Supply = 440–480 VAC (60 Hz)       Si         2       AAA630AC7       Relay, Reverse-Phase, Site Supply = 380 VAC (50 Hz)       AAA630AC3         2       AAA630AC3       Relay, Reverse-Phase, Site Supply = 575–600 VAC (60 Hz)       AAA613DL31	RPR
NOTE: See page 15 for spare fuses.         NOTE: See page 15 for spare fuses.         AAA21241U       AAA21241U         REF. No.       PART No.       DESCRIPTION       Si         1       AAA630AC1       Relay, Reverse-Phase, Site Supply = 208–240 VAC (60 Hz)       Si         1       AAA630AC2       Relay, Reverse-Phase, Site Supply = 440–480 VAC (60 Hz)       AAA630AC7         2       AAA630AC3       Relay, Reverse-Phase, Site Supply = 380 VAC (50 Hz)       AAA630AC2	
NOTE: See page 15 for spare fuses.         NOTE: See page 15 for spare fuses.         AAA21241U       AAA21241U         REF. No.       PART No.       DESCRIPTION       S         AAA630AC1       Relay, Reverse-Phase, Site Supply = 208–240 VAC (60 Hz)       S         1       AAA630AC2       Relay, Reverse-Phase, Site Supply = 208–240 VAC (60 Hz)       S         2       AAA630AC2       Relay, Reverse-Phase, Site Supply = 380 VAC (50 Hz)       A         2       AAA630AC3       Relay, Reverse-Phase, Site Supply = 575–600 VAC (60 Hz)       AAA613DL31         3       AAA613DL31       Relay, 120 VAC       Fan & Light Protection	RPR



\* Fuse located on ACA26800YA (IOBD \*\* Fuse located on AAA26800AKP or ACA26800ALR (IOBD).

Page 16 November 15, 2023

## **Power Supply Hardware**



REF. NO. PARI NO.		DESCRIPTION		STMBUL	
1	AAA646E5	Blue Jumper	Used on ACA26800YK_ & YE_ boards	J11-J12	
*	AAA618AF100	Clips, Relay			
2	AAA26800YL1 ABA26800YL1	PCB, Power Supply Subsystem	NEB & w/o Rear Door Operator & Simplex & (Holed or Holeless) Systems		
	ABA26800YK1 ACA26800YK1	PCB, Power Supply Subsystem, Mod	Elevator A		
	ABA26800YK2 ACA26800YK2	PCB, Power Supply Subsystem, NEB		PSSB	
	ABA26800YE1 ACA26800YE1	PCB, Power Supply Subsystem, Mod			
	ABA26800YE2 ACA26800YE2	PCB, Power Supply Subsystem, NEB	Elevators B, or C, or D		
		Relay, 24 VDC, Mounted on	Fire Service Relay.	FSR	
3 AAA613CZ8 PSSB			Switchover Relay Elevators A, B, C, or D	SWR	
4	AAA613CZ9	Relay, 120 VAC, Mounted on PSSB, Used w/ ABA26800YK or ABA26800YE	REM Power Transfer Relay for	RPTR	
4	AAA613CZ24	Relay, KUP, 110 VDC, Mounted on PSSB, Used w/ACA26800YK or ACA26800YE	Elevators B or C or D		

\* Part not shown.

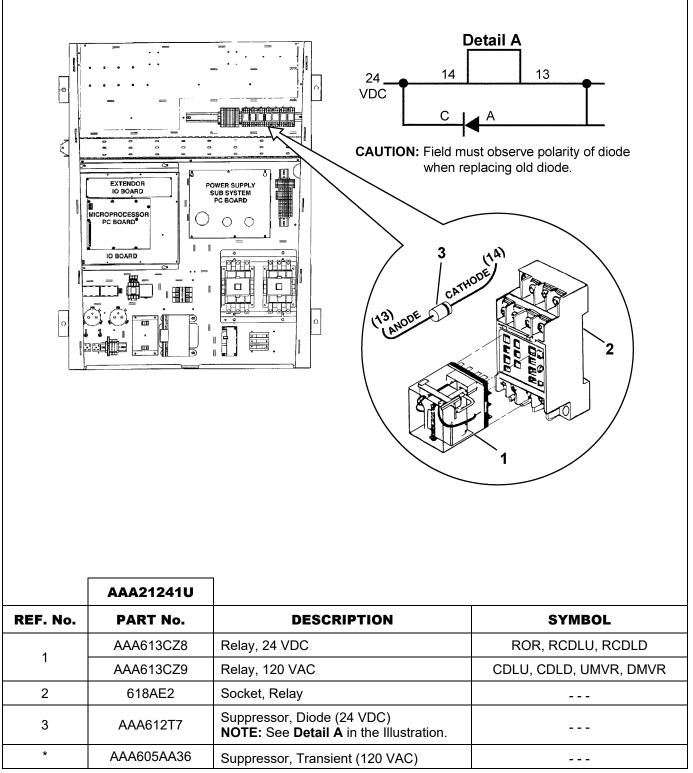
# **Power Supply Hardware:**

10-AAA21241U

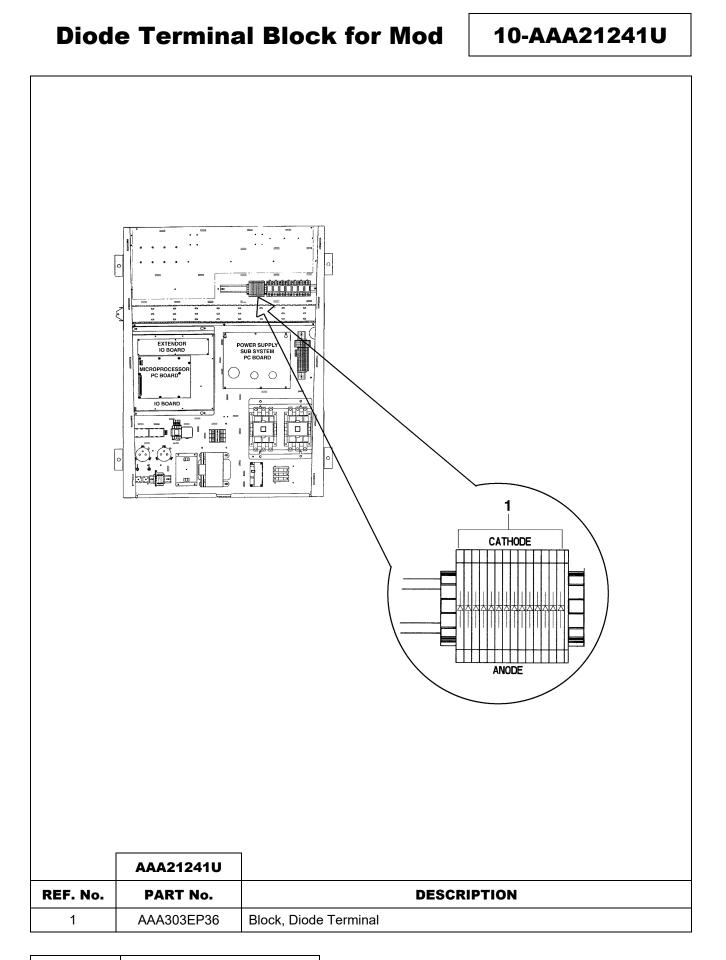
## Connectors

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AAA21241U					
PART No.	SYMBOL	OPTIONS	DESCRIPTION		
AAA447BE21	P101	Hall			
AAA447BE23	P102	Hall/Group			
AAA447BE24	P103	Card Reader			
AAA447BE25	P104	Rope Governor			
AAA447BE63	P105	TOC			
AAA447BE64	P106	Door Operator			
AAA447BE65	P106	Front Only (YL) PC Board			
AAA447BE66	P107	Fan & Light			
AAA447BE29	P108	120 VAC Door Operator			
AAA447BE30	P109	56 VAC			
AAA447BE31	P110	120 VAC HL	Connector, Power Supply Board		
AAA447BE32	P111	120 VDC HL			
AAA447BE67	P112	24 VDC			
AAA447BE39	P113	Fan & Light			
AAA447BE38	P115	Tank Heater			
AAA447BE37	P116	LOS, LPS Sensors			
AAA447BE36	P117	Transformer			
AAA447BE34	P118	REM - Car "A"			
AAA447BE35	P118	REM - Car "B," "C," & "D"			
AAA447BE42	P126	Main Line Disconnect			
AAA447BE41	P127	M→ AAA26800YL1, ABA26800YK1, or YK2, ABA26800YE1 or YE2			
AAA447BE40	P128	Intercar Connection			
AAA447BE22	P130	Intercar Connection			
AAA174YG22	P127	w/o ERU: W→ ABA26800YL1 or ACA26800YK1, YK2, or ACA26800YE1 or YE2	Cable (LVM controller) <b>NOTE:</b> This plug contains jumper that are required with elevator w/o the Emergency Rescue Unit.		



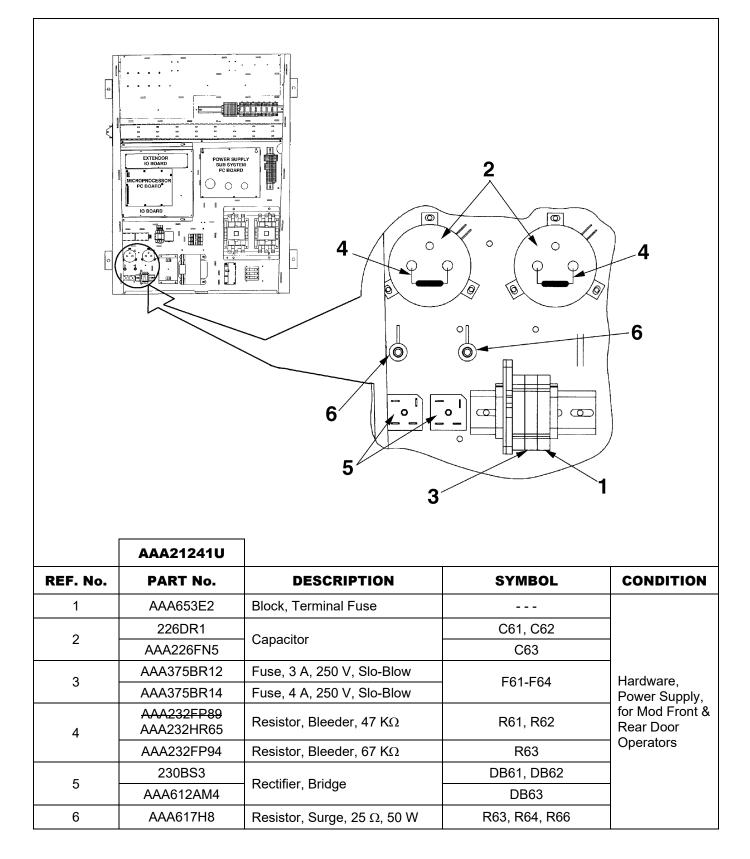
\* Part not shown.



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## **Capacitors, Fuse, Rectifiers,**

## and Resistors for Mod



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## **Additional Hardware for Mod**

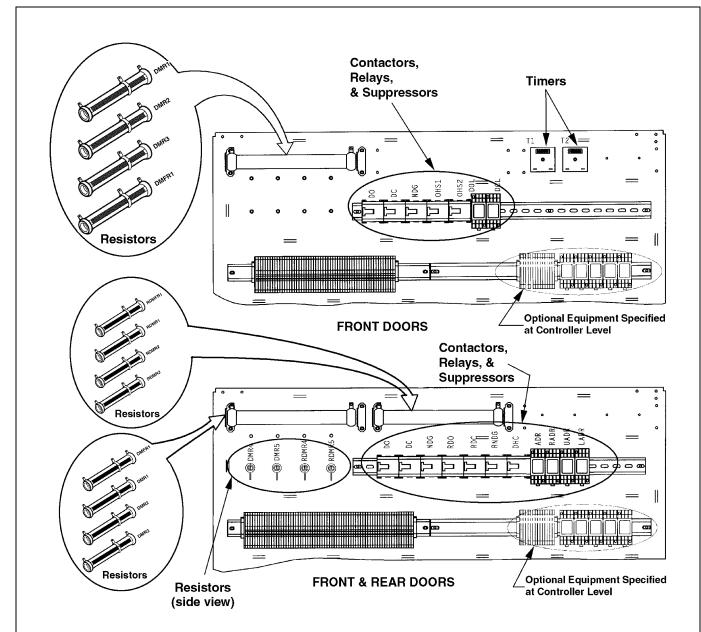
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## 10-AAA21241U

	4			
			00	
	AAA21241U			
REF. No.	AAA21241U PART No.	DESCRIPTION		SYMBOL
<b>REF. No.</b>		DESCRIPTION Board, Hall Lantern (1 & 2)	00	• • • • • • • • • • •
	PART No.			
1	PART No. AAA26800PV1	Board, Hall Lantern (1 & 2)		HL1, HL2
1 2	PART No.           AAA26800PV1           AAA26800MT1	Board, Hall Lantern (1 & 2) Board, Mod Remote Station Extender (II) Position Indicator Assembly Inspection Panel,		HL1, HL2 MRSEB
1 2	PART No.           AAA26800PV1           AAA26800MT1           AAA26800MT1	Board, Hall Lantern (1 & 2) Board, Mod Remote Station Extender (II) Position Indicator Assembly Inspection Panel,	Remote,	HL1, HL2 MRSEB MRDS
1 2 3	PART No.           AAA26800PV1           AAA26800MT1           AAA21255U5           AAA447X3	Board, Hall Lantern (1 & 2)Board, Mod Remote Station Extender (II)Position Indicator Assembly Inspection Panel, w/Up, Down & Enable Buttons. For NYC.	Remote, 4-Pin	HL1, HL2 MRSEB MRDS P11

# Spare Hardware—

## **Mod Door Operators**



#### **Typical View - Mod Door Operator Spare Hardware**

The following eight pages contain spare hardware—contactors, relays, resistors, suppressors, timers, and varistors—for mod door operators. Each page focuses on a different door operator type. The illustration above demonstrates the page layout and the parts shown.

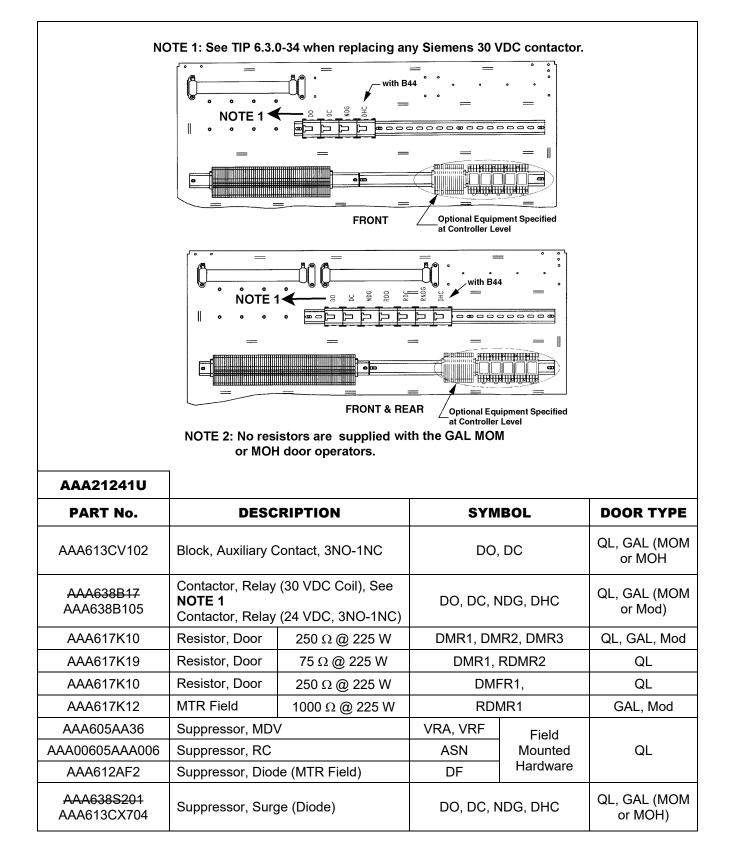
All parts are called out by their symbol. Please note that resistors are shown in groups of four, either stacked on top of each other or from the side view. The resistors used in the field are easily identified because the part number and resistor settings are stamped on them.

For more information, contact your OSC Customer Service Representative.

## Hardware for Mod Door

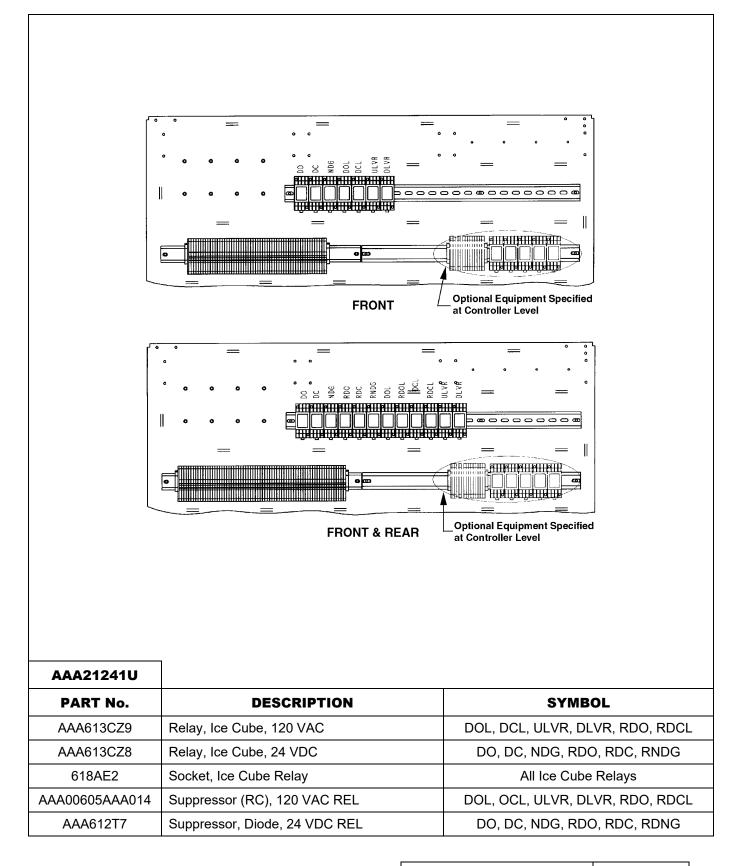


## **Operators: QL, GAL, or MOH Doors**



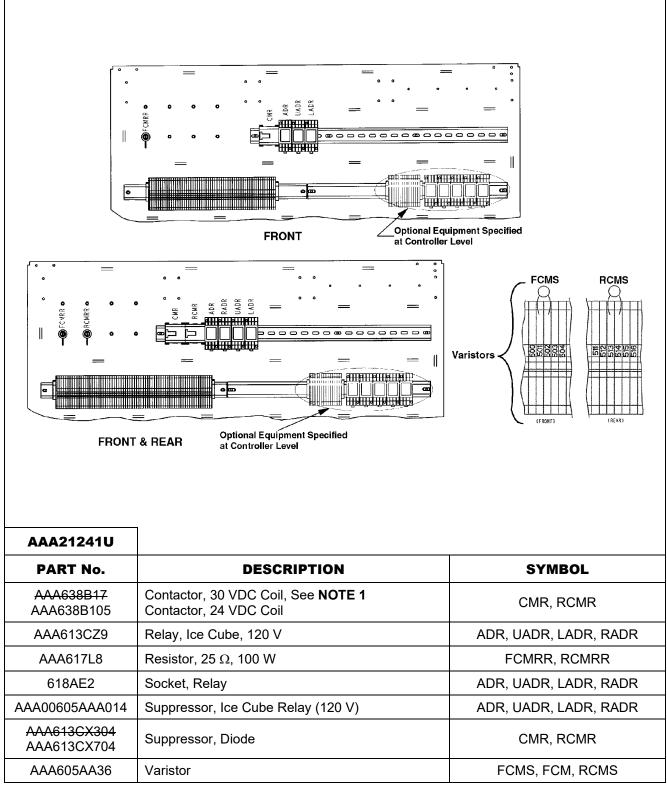
Page 24 November 15, 2023

# Hardware for Mod Door Operators: MAC PMSCC, or ECI 1000 Doors



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# Hardware for Mod Door10-AAA21241UOperators: Manual Doors

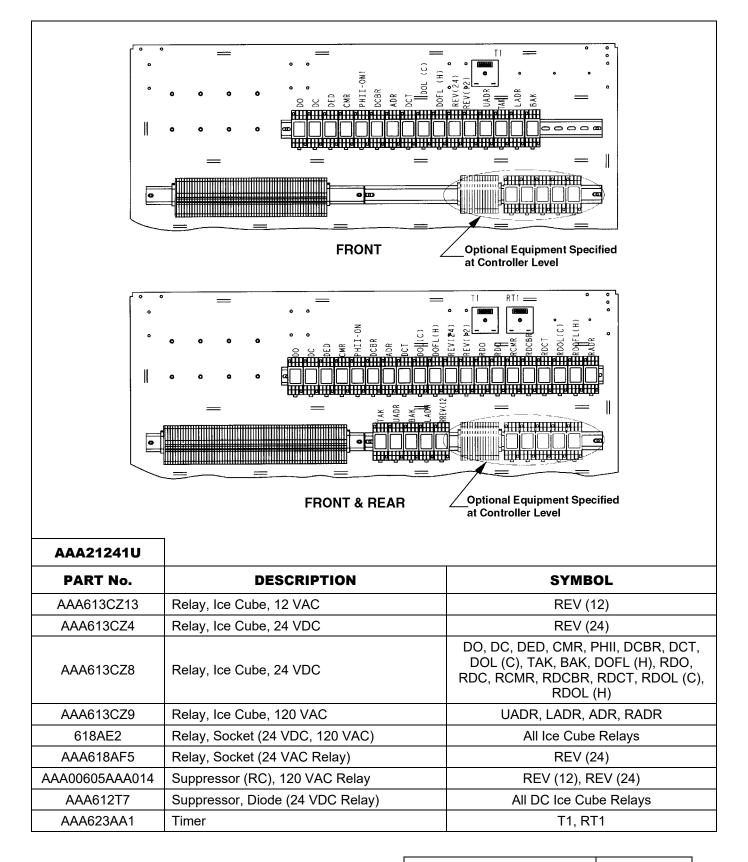


**NOTE 1:** See TIP 6.3.0-34 when replacing any 30 VDC Siemens contactor.



## Hardware for Mod Door

## **Operators: Peelle<sup>®</sup> Freight Doors**

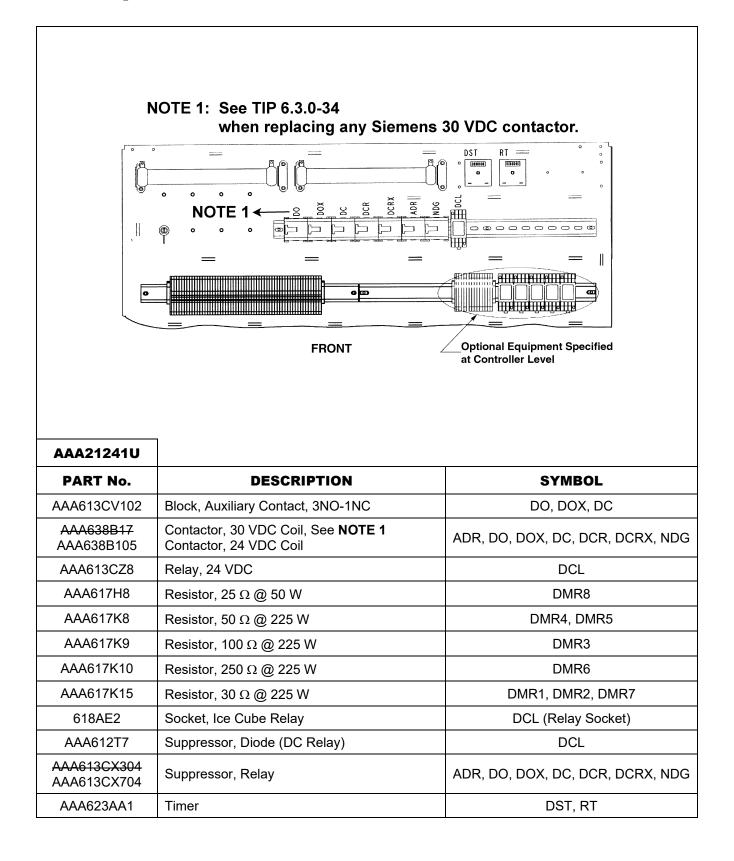


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## Hardware for Mod Door

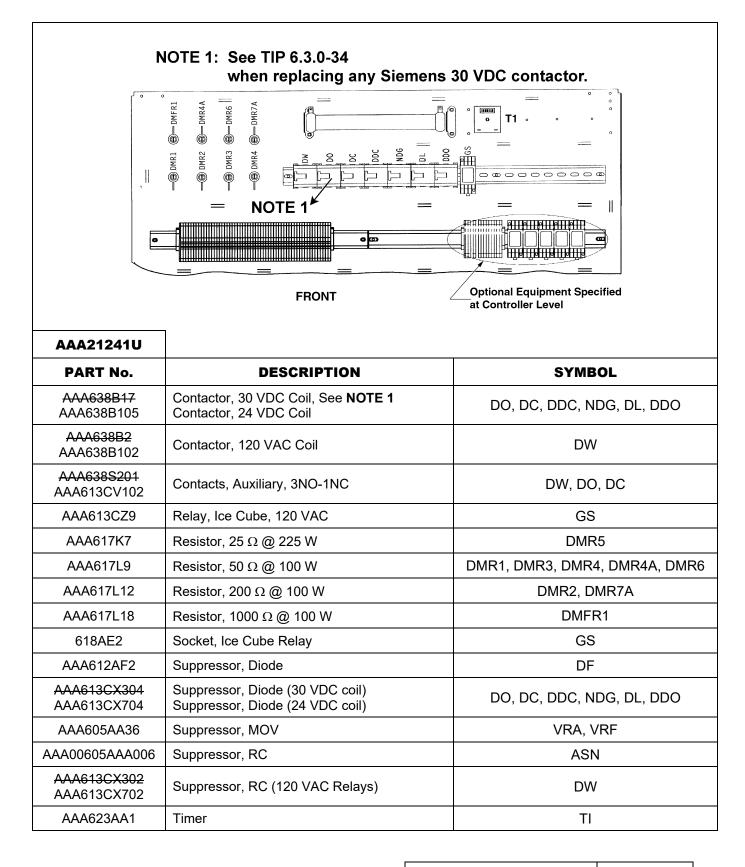
10-AAA21241U

## **Operators: 7770A Doors**

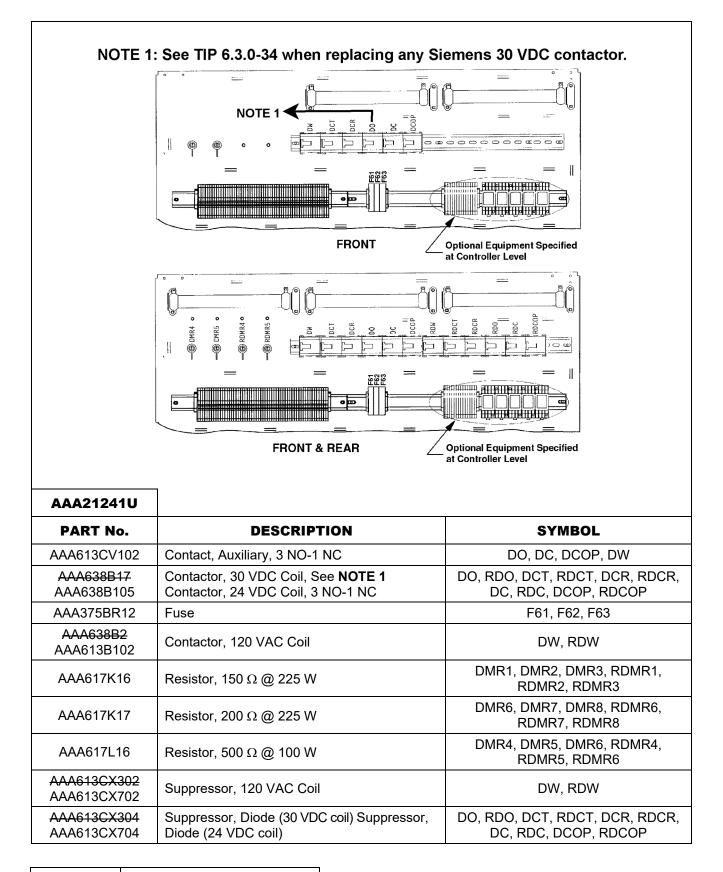


## **Hardware for Mod Door Operators:**

## **6970 Timer Resistance Doors**



# Hardware for Mod Door Operators: 7300AC Doors

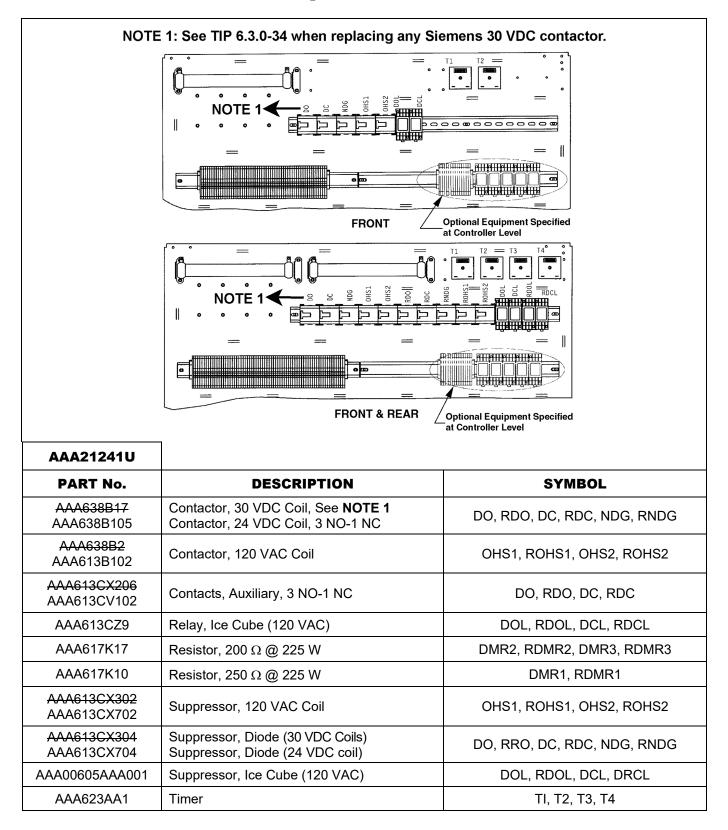


Page 30 November 15, 2023

10-AAA21241U

# Hardware for Mod Door

# **Operators: Dover<sup>®</sup> HD73 Doors**



## **Spare Hardware—Field Cables**



## **Between COP and TOC Devices**

NOTE: Contact your customer service representative with the unit's contract number to assist in determining the cable/plug part number identification.

AAA21241U			
PART No.	DESCRIPTION	CONNECTION: MAIN COP TO TOP	REMARKS
AAA174ZC_*	Cable	Tan of Car Inspection Boy	Plug marked: KP6
AAA447BE113	Plug	Top-of-Car Inspection Box	(8-position)
AAA174ZA1	Cable	Front Coto Switch on Ton of Cor	Plug marked: KP3
AAA447BE110	Plug	Front Gate Switch on Top-of-Car	(3-position)
AAA174ZA2	Cable	Deer Cete Switch on Ten of Cer	Plug marked: KP11
AAA447BE116	Plug	Rear Gate Switch on Top-of-Car	(3-position)
AAA174YZ1	Cable		Plug marked: KP15
AAA447BE119	Plug	Safety Switch (SOS) on Top-of-Car	(3-position)
AAA174YV1 thru 18*	Cable	De an ef Can Internetion Deu	Plug marked: KP12
AAA447BE117	Plug	Rear of Car Integration Box	(8-position)
AAA174YU1 thru 11*	Cable		Plug marked: KP5
AAA447BE112	Plug	Tape Reader Box on Top-of-Car	(9-position)
AAA174YR_*	Cable		Plug marked: KP6
AAA447BE_*	Plug	Top-of-Car Inspection Box	(8-position)
AAA174YQ_*	Cable		Plug marked: KP4
AAA447BE111	Plug	Front of Top-of-Car Integration Box	(11-position)
AAA174AP_*	Cable		Plug marked: KP9
AAA447BE115	Plug	Rear LAMBDA III Device on Top-of-Car	(7-position)
AAA174YN_*	Cable		Plug marked: KP7
AAA447BE114	Plug	Front LAMBDA III Device on Top-of-Car	(7-position)
AAA174YM1 thru 4	Cable		Plug marked: KP1
AAA447BE108	Plug	Car Lights on Top-of-Car	(3-position)
AAA174YM9 thru 12	Cable	E E # 0 + + T ( 0	Plug marked: KP14
AAA447BE118	Plug	Emergency Exit Contact on Top-of-Car	(3-position)
AAA174ZB1 thru 6	Cable		Plug marked: KP8
AAA447BE56	Plug	Front Door Control Box on Top-of-Car	(15-position)
AAA174ZB4 thru 5	Cable		Plug marked: KP10
AAA447BE57	Plug	Rear Door Control Box on Top-of-Car	(15-position)

\* Contact OSC for actual length of cable.