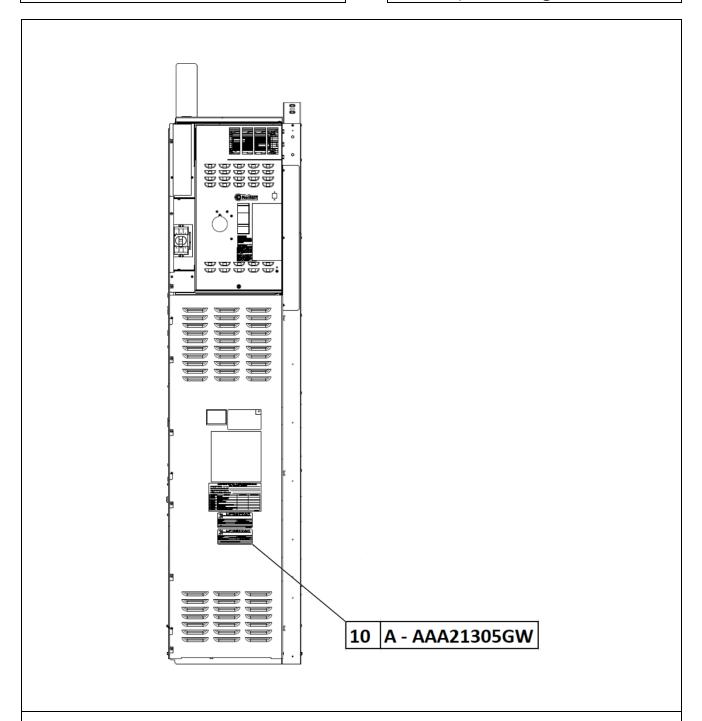
Variable Frequency Controller for NSAA Gen3® Core

Spare Parts Leaflet 10-AAA21305GW

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This document does not contain any technical data subject to EAR or ITAR.

SERVICE ENGINEERING
Otis Elevator Company
Bloomfield, Connecticut USA

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History

10-AAA21305GW

Leaflet Description

This leaflet lists the lowest replaceable units for type AAA21305GW controllers. These controllers are Gen3 variable frequency controllers, used in NSAA for Gen3 units running at 200 or 350 fpm. These systems have also been referred to as Next Gen, Gen3 Core Basic, Gen3 Core.

Leaflet Revisions

Date Revised	Subject Matter Expert	Reason for Revision
April 13, 2023	Paul Kerr and Buie Philip	New SPL
September 6, 2023	Gary Beaulieu	Updated information
June 19, 2024	Bennie Murah	Add connectors (page 15).

Related Drawings

Drawing No.	Title	Drawing No.	Title
AAA21305GW	Gen3 Core MRL Controller Assembly	AAA21305GX	Inspection and Test Assembly
HAA21310AZ	40A-R2 Ultra Drive	AAA21305GW_BOM	Gen3core MRL Controller Assembly BOM (includes harnesses)

Related Documents

Document ID	Title

Subject Matter Expert

Name	Department
Ali Bozorgzadeh	OSC Service Engineering

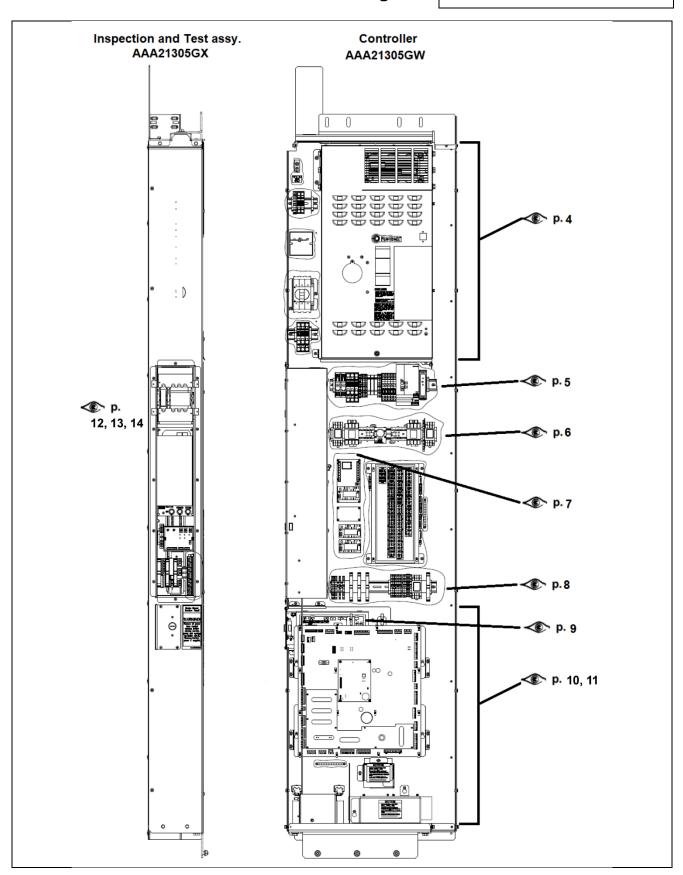
About Spare Parts Leaflets...

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.

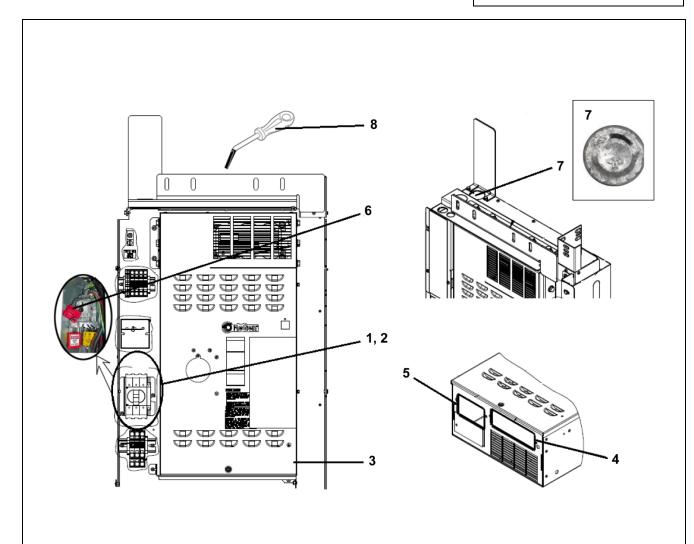
While goal of this document is to make parts identification as easy as possible, the document cannot be all-inclusive. Elevator and escalator contracts classified as "special" or "custom" are not addressed here. For such contracts, please refer to specified information, the contract folder, TIPs, Field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

Gen3 Core MRL Assembly

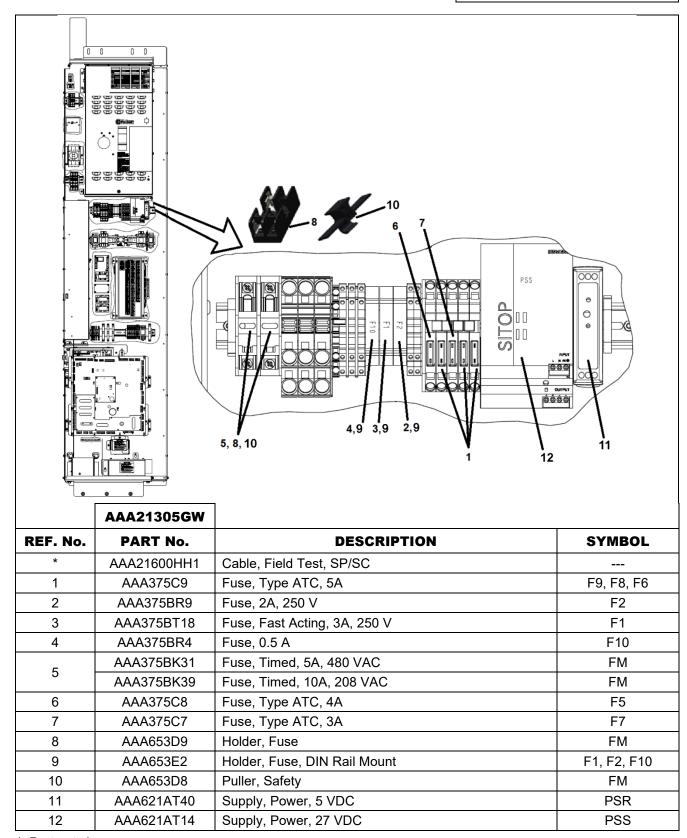


Upper Controller Section



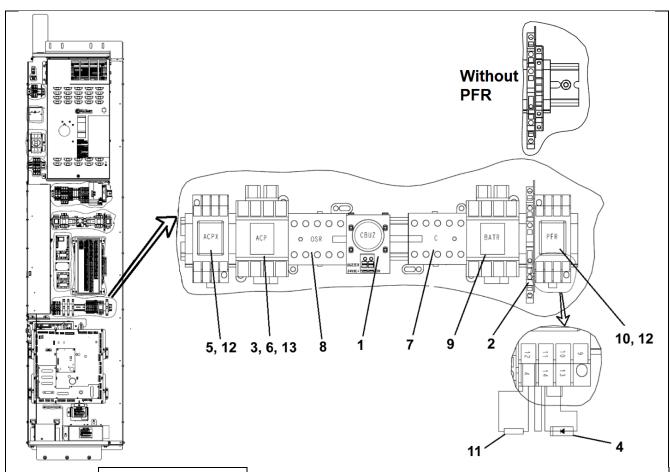
	AAA21305GW		
REF. No.	PART No.	DESCRIPTION	SYMBOL
1	AAA661G9	Contacts, Auxiliary (PSW AUX)	
2	AAA661G11	Disconnect, Non-Fusible, 63 A (PSW)	
3	HAA21310AZ4	Drive, Ultra, Regenerative (OVFR05F-404) NSAA, 480 V / 208 V–240 V, 3P/1P, Gen3 Core	
4	AAA706X9	Grommet, Edge (longer as shown)	
5	AAA706X10	Grommet, Edge (shorter as shown)	
6	AAA661G14	Hasp, Lockout. For disconnect (Ref. 2)	
7	444BL13	Plug, Hole	
8	MT-105041	Tool, Terminal Block Operating; Used with all Wago terminal blocks.	

Power Supplies, Fuses



^{*} Part not shown.

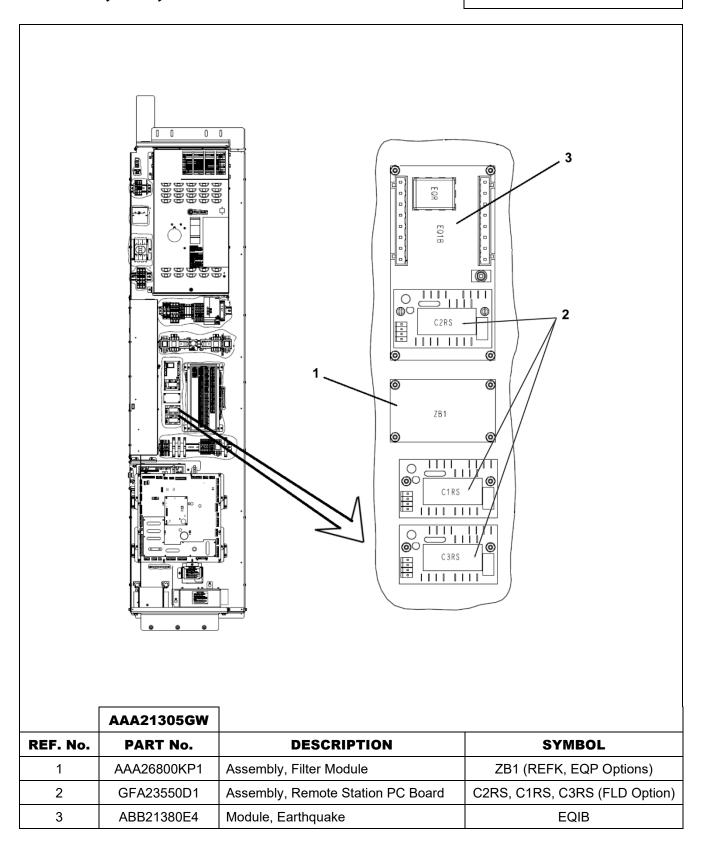
Relays, Buzzer



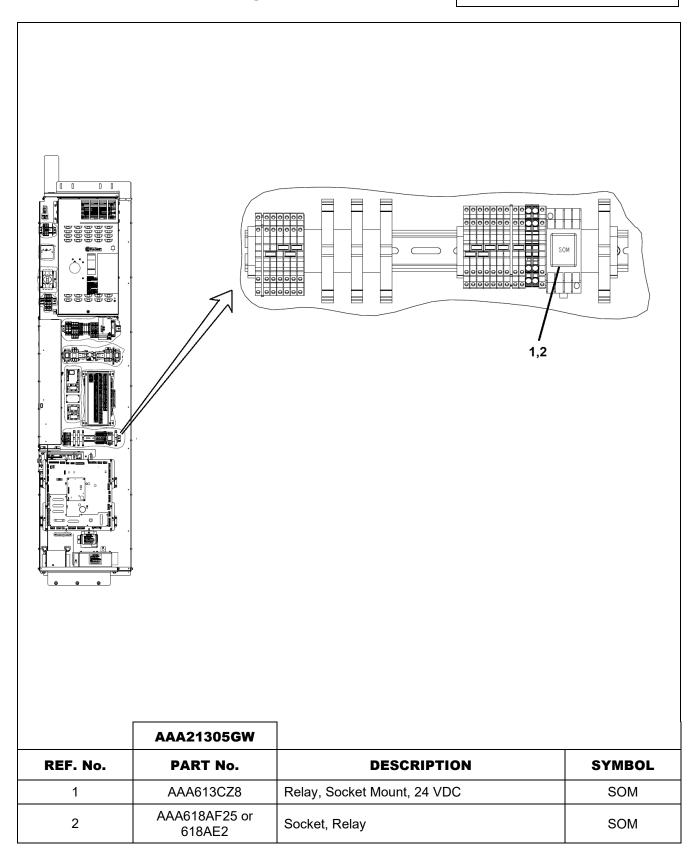
	AAA21305GW		
REF. No.	PART No.	DESCRIPTION	SYMBOL
1	AAA731C11	Alarm, Electrical	CBUZ
2	AAA303EP199	Block, Terminal, with Relay	X
3	AAA613DL72	Contact, Auxiliary (2N0, 2NC)	ACP
4	AAA612AF3	Diode, 400 V	D3/PFR
*	AAA378D1	Ferrule, for R3 & D3 Leads	
5	AAA613CZ9	Relay, 110 VAC	ACPX
6	AAA613DL31	Relay, Coil, 120 VAC (2NO, 2NC)	ACP
7	AAA638AN2	Relay, Coil, 120 VAC (2NO, 2NC)	С
8	AAA638AN1	Relay, Contactor	OSR
9	AAA613DL119	Relay, Coil, 48 VDC (3NO, 1NC)	BATR
10	AAA613CZ8	Relay, Socket Mount, 24 VDC	PFR
11	AAA232FV73	Resistor, 1K OHM ¼ W 5%	R3/PFR
12	AAA618AF25 or 618AE2	Socket, Relay	
13	AAA613DL61	Suppressor	ACP

^{*} Part not shown

EQIB, **ZB**, **EQR** and **RS** Modules

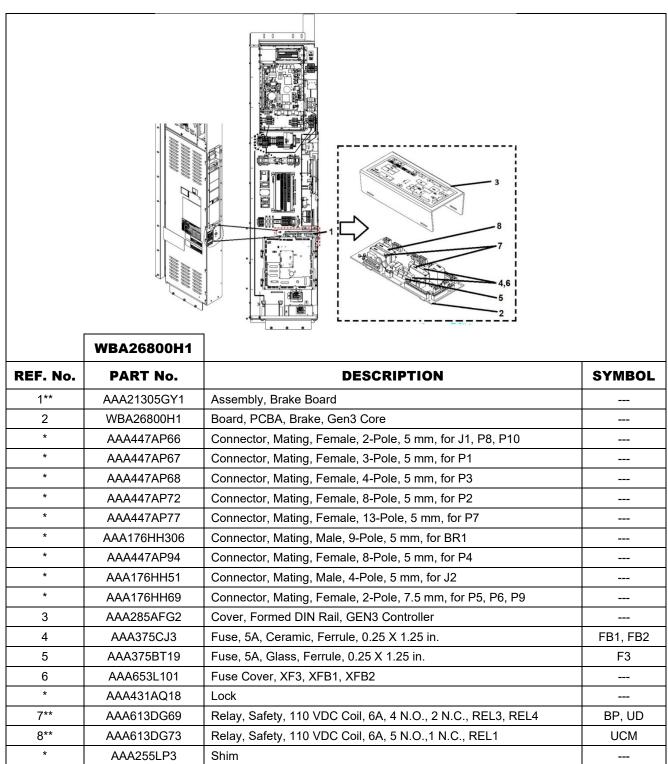


Relays



Brake Board Assembly, Relays, Fuses

10-AAA21305GW



^{*} Part not shown.

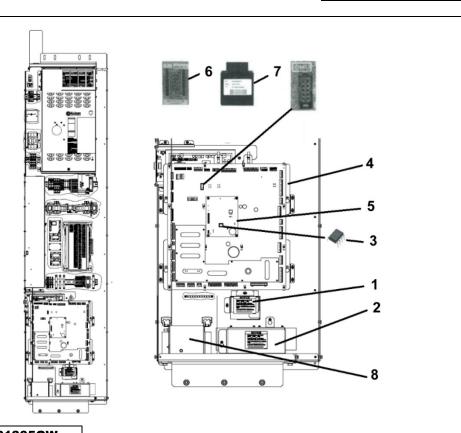
NOTE 1: AAA613DG71 can be ordered instead of AAA613DG69; AAA613DG76 can be ordered instead of AAA613DG73

NOTE 2: Mating connectors for AAA21305GY1 are marked *

^{**} See **NOTES 1** and **2**.

Lower Controller Section

10-AAA21305GW



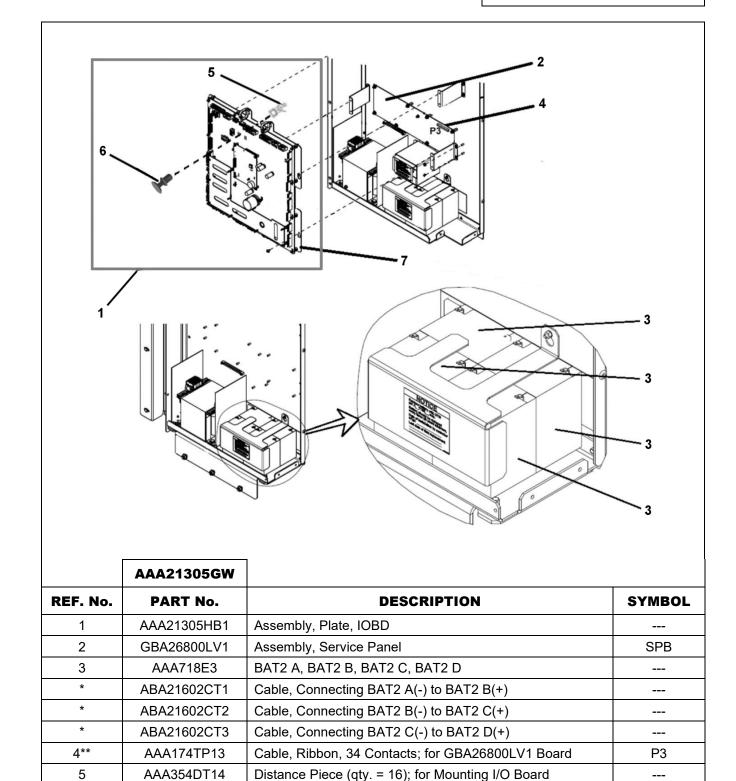
	AAA21305GW		
REF. No.	PART No.	DESCRIPTION	SYMBOL
*	AAA276AR4	Barrier, Arc, BAT1	
*	AAA276AR3	Barrier, Arc, BAT2	
*	AAA276AR8	Barrier, Arc, TRM	
1	AAA718E3	Battery, Position Loss Recovery, 12 V, 4 AH	BAT1
2	AAA718E3	Battery, MRO, 12 V, 4 AH BAT2A – BAT2D	BAT2
*	174HT10	Cable, Ribbon (Maintenance)	
*	AAA21602AV1	Device, Blocking	
3	AAA616NL26	EEPROM, Blank, U8 and U9, 1M-Bit, Serial	
*	AAA21600CY3	Encoder, Rescue, to SPB P4 Harness Cable	
*	AAA21602AG1	Encoder, from Drive to IOBD Harness Cable	
*	AAA102AQZ36	Label, BAT1	
4	AHA26800ANY3	PC Board, I/O	I/O Board
5	ABA26800AVP11	PC Board, Microprocessor (v2) (see CAUTION)	I/O Board
*	AAA102ABE5	Plate, Data (Battery Replacement Label)	
6	DAA26800K1	Socket, Adapter, for OMU Programming Tool	
7	37028RCN	Software, Contact OSC Customer Service for the latest version of software burned into DCA26800H21 (blue OMU)	-
0	AAA225NZ3	Transformer, 480 VAC Input w/ AAA375BK31 (FM)	
8	AAA225NZ4	Transformer, 208 VAC Input w/ AAA375BK39 (FM)	TRM

^{*} Part not shown.

CAUTION: Remove the EEPROM U8 and U9 from AVP.

Lower Controller Section

10-AAA21305DH



Kit, Jumper, Temporary

Plate, Mounting, I/O PCB

Rivet, Snap (qty. = 16); for Mounting I/O Board

ABA27BH14

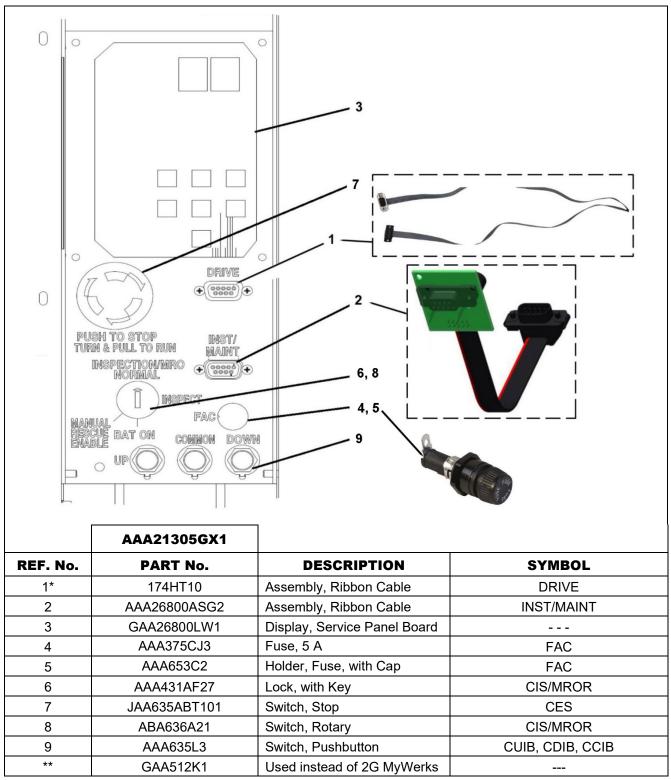
AAA141AN4

AAA180JT3

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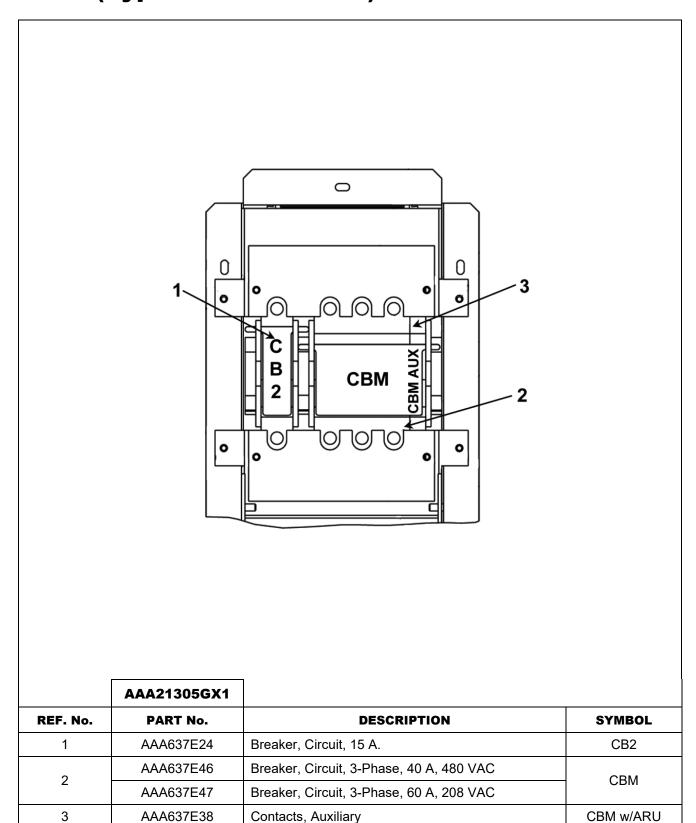
^{**} For location only; part itself not shown in illustration.

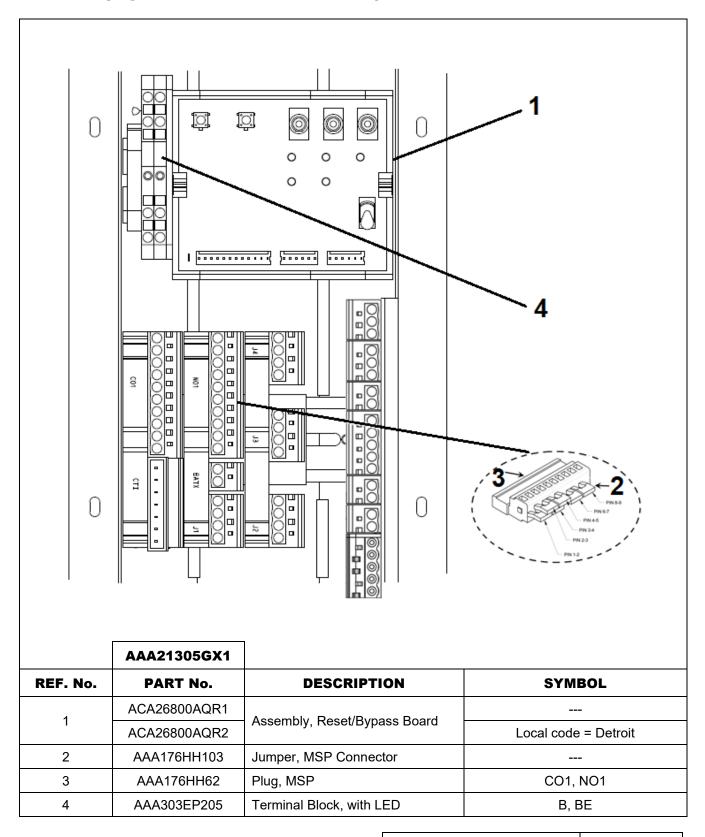
^{*} Part not shown.



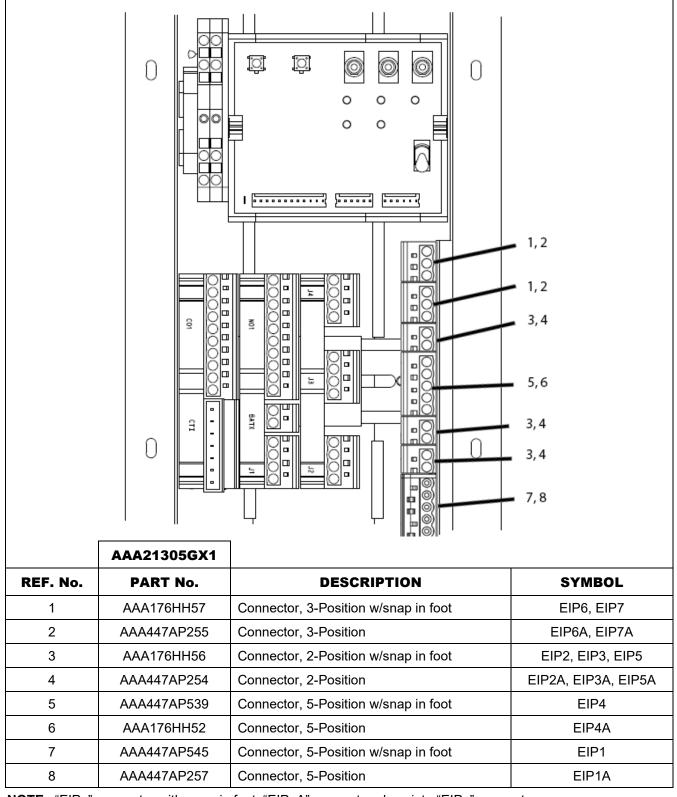
^{*} For location only; parts themselves not shown in illustration.

^{**} Plugs into service tool port located outside of the controller.





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NOTE: "EIP_" connector with snap-in foot, "EIP_A" connector plugs into "EIP_" connector.