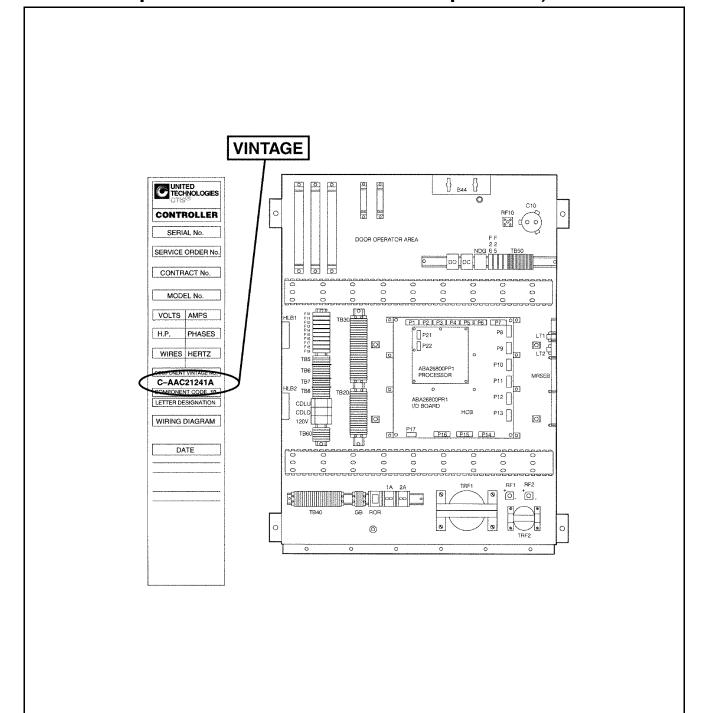
211M Hydraulic Controller

Spare Parts Leaflet 10-AAA21241A

April 27, 2004 / Page 1 of 15

Supersedes SPL 10-AAA21241A Dated September 30, 2003



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irst! SERVICE ENGINEERING
Otis Elevator Company
Bloomfield, Connecticut USA

History

Leaflet Description

This leaflet breaks out service parts for the 211M hydraulic controller.

Leaflet Revisions

Date Revised	Subject Matter Expert	Reason for Revision
June 1995		New leaflet
September 1995		Update parts
June 1998	Mike Boles	Correct p/n, p. 13; add history page
August 1, 2000	Mike Boles	Correct transformer voltages on p. 11, ref. 6
Sept. 30, 2003	Mike Boles	Added new parts for contactors (DO, DC) for some Mod door operators.
April 27, 2004	Val Minnes	Update p/n in ref. 6 on p. 4

Related Drawings

Drawing No.	Title	Drawing No.	Title
AAC21241A	Assembly, 211M		

Related Documents

Document ID	Title
SPL 10-AAA21241E	211M Starter Panel

Subject Matter Expert

Name	Department	
Val Minnes	OSC Service Engineering	

About Spare Parts Leaflets...

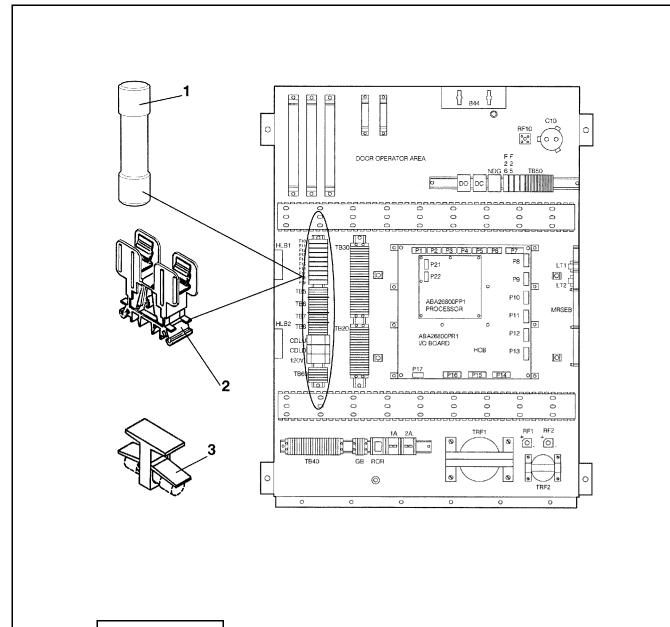
This document lists the lowest replaceable units (LRUs) for the standard version of the product. The LRUs are chosen by a team of Otis associates representing engineering and manufacturing.

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.

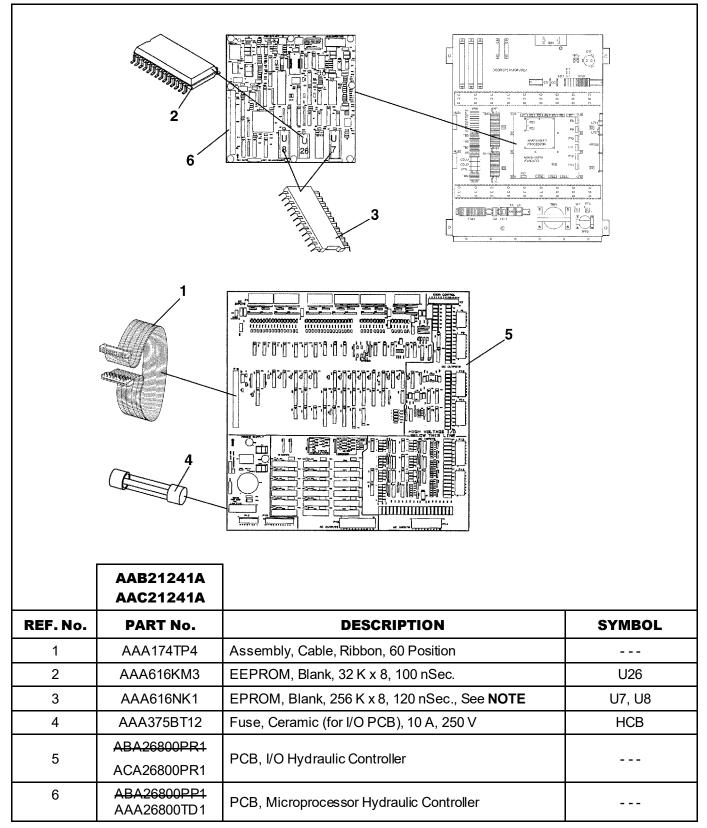
211M Controller Fuses

10-AAA21241A



	AAB21241A AAC21241A		
REF. No.	PART No.	DESCRIPTION	SYMBOL
	AAA375BG15	Fuse, Fast-Acting, 5.0 A, 600 V	F10
	AAA375BG10	Fuse, Fast-Acting, 2.0 A, 600 V	F11, F12, F14, F16, F18
1	AAA375BG8	Fuse, Fast-Acting, 1.0 A, 600 V	F13
	AAA375BG12	Fuse, Fast-Acting, 3.0 A, 600 V	F15, F17
	AAA375BJ18	Fuse, Slo-Blow, 2.0 A, 500 V	F19
2	AAA653K1	Holder, Fuse	
3	AAA653K100	Puller, Fuse	

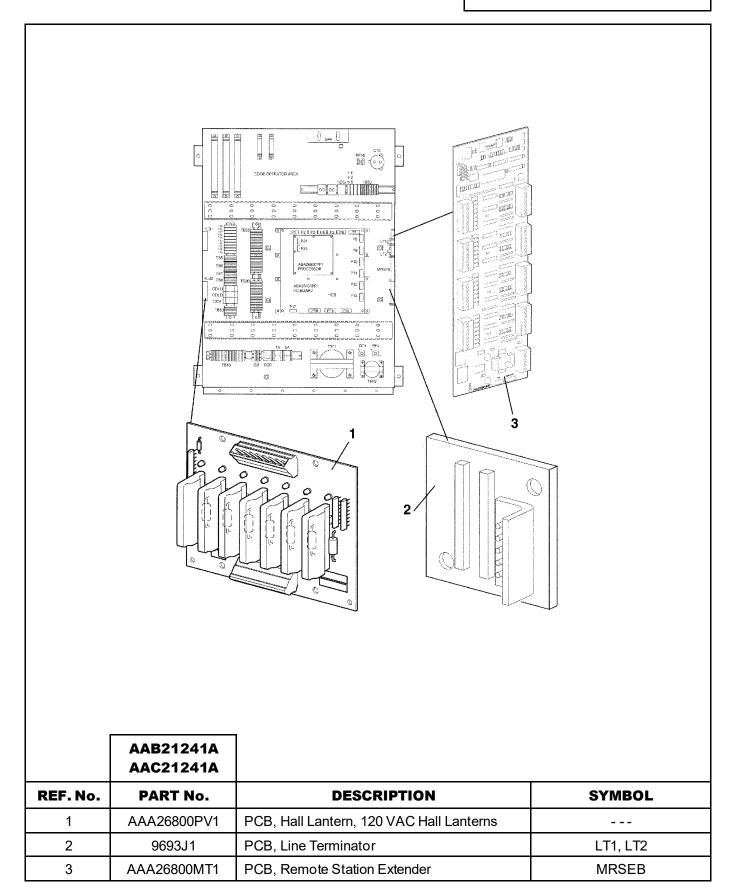
211M Controller PC Boards



NOTE: AAA30200*** is the software configuration number associated with this blank EPROM.

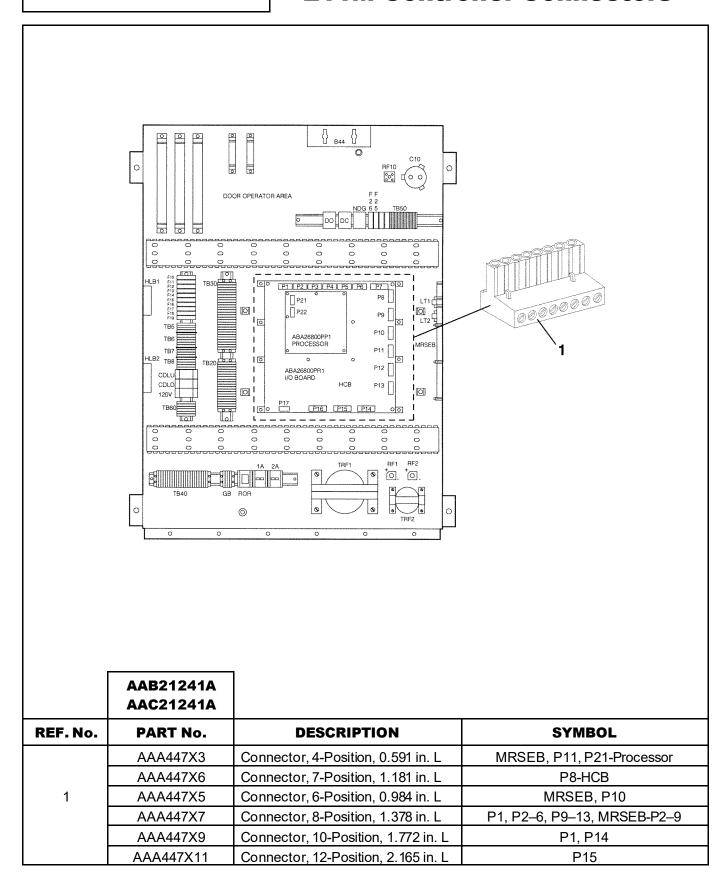
211M Controller PC Boards

10-AAA21241A

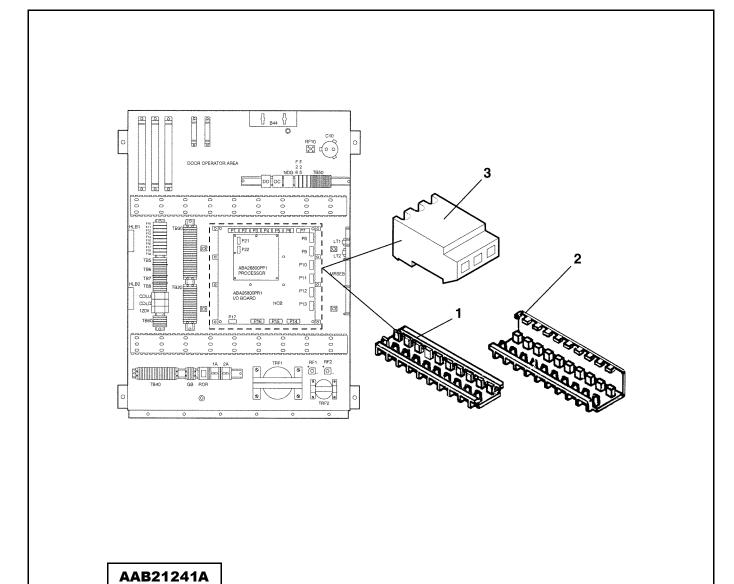


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211M Controller Connectors

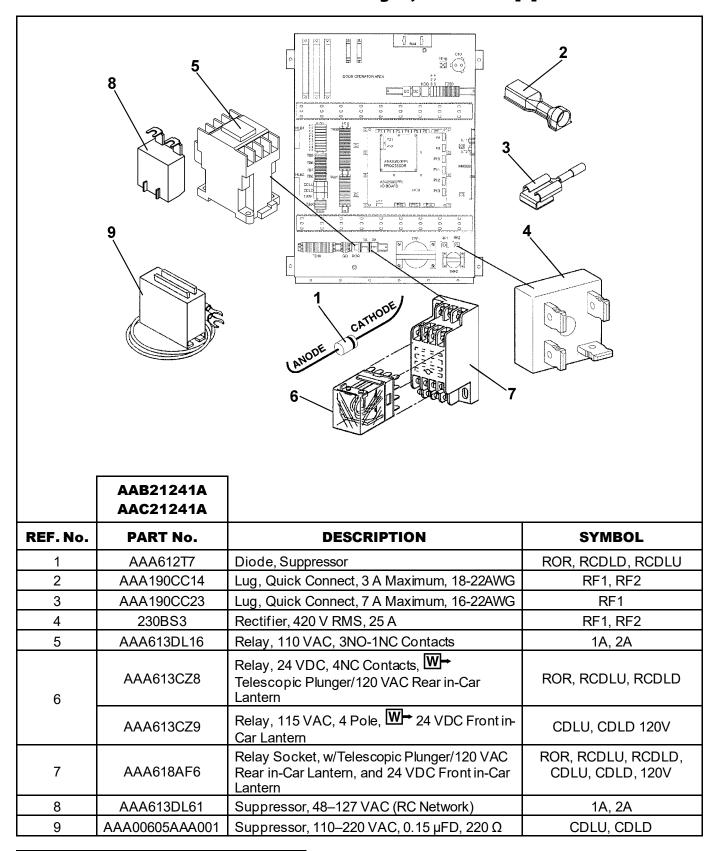


211M Controller Strain Relief Covers



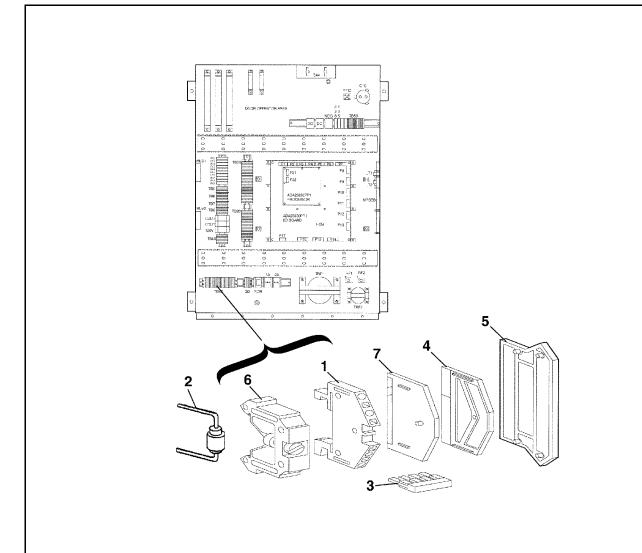
	440040444		
	AAC21241A		
REF. No.	PART No.	DESCRIPTION	SYMBOL
1	AAA447AC11	Cover, Strain Relief, Feed-Thru, 4 Pin	IT1, IT2, P22-Processor, MRSEB-P1
'	AAA447AC14	Cover, Strain Relief, Feed-Thru, 8 Pin	P17, HCB
	AAA447AC17	Cover, Strain Relief, Feed-Thru, 12 Pin	P16, HCB
2	AAA447AC47	Cover, Strain Relief, Closed End, 12 Pin	P16, HCB
	AAA447AC60	Cover, Strain Relief, Closed End, 13 Pin	P7-HCB
	AAA447AC41	Cover, Strain Relief, Closed End, 8 Pin	P17-HCB
	AAA447AC3	Receptacle, Feed-Thru, 4 Pin	LT1, LT2, P22-Processor, MRSEB-P1
3	AAA447AC59	Receptacle, Closed End, w/Lock, 13 Pin	P7, HCB
	AAA447AC61	Receptacle, Closed End, w/Lock, 12 Pin	P16, HCB
	AAA447AC62	Receptacle, Closed End, w/Lock, 8 Pin	P17, HCB

211M Controller Lugs, Relays, and Suppressors



211M Controller Components

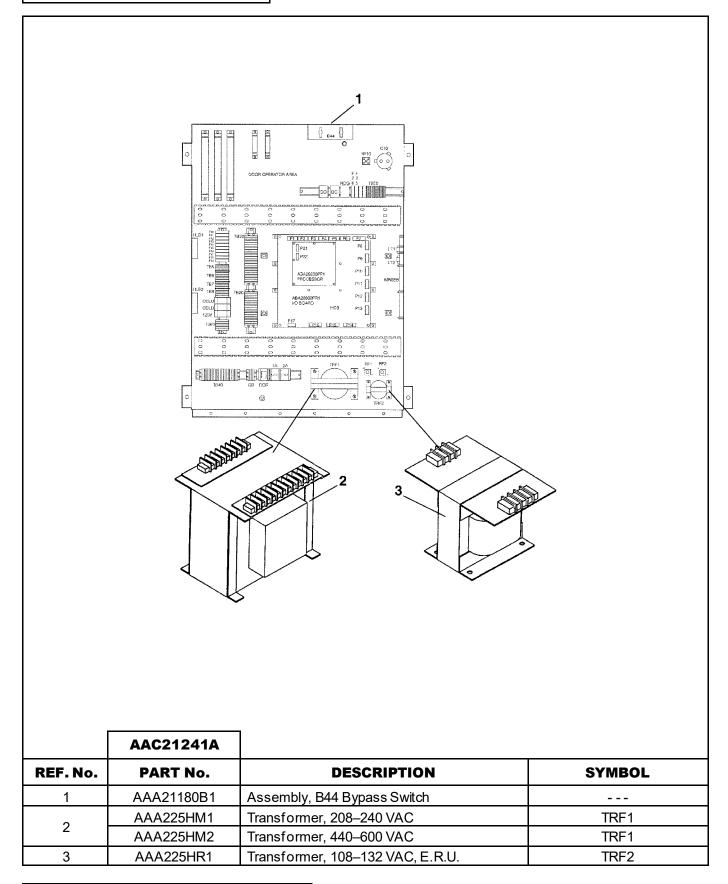
10-AAA21241A



	AAB21241A AAC21241A		
REF. No.	PART No.	DESCRIPTION	SYMBOL
4	AAA303EP19	Block, Terminal, Blue, 26-14 AWG, 4 Entries	
1	AAA303EP1	Block, Terminal, Gray, 26-14 AWG, 4 Entries	
2	AAA00230AAB001	Diode, 6 A, 50 V PIV	D1, D2, D3
3	AAA303EP48	Jumper, Vertical, 2 Pole	
3	AAA303EP50	Jumper, Vertical, 10 Pole (cut to 4 Position)	
4	AAA303EP3	Plate, End, 0.09 in. Thick	TB5-8
5	AAA303EP52	Plate, End, 0.098 in. Thick	20, 30, 40, 60
6	AAA303EP5	Stop, End, 0.39 in. Thick	
7	AAA303EP4	Separator, Terminal, Orange	TB5-8

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211M Controller Transformers

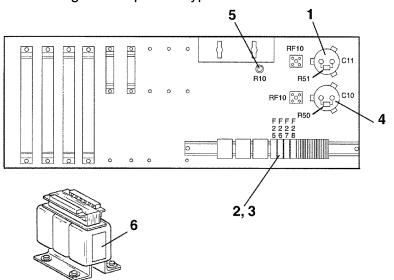


Type A**21241C Door Operator Interface

ARR. NO	OPERATOR TYPE	
1	OVL	
2	OVL W/REAR	
3	GAL MOD	
4	GAL MOD W/REAR	
5	GAL MOM/MOH	
6	GAL MOM/MOH W/REAR	
7	QL	
8	QL W/REAR	
9	7300AC	
10	7300 W/REAR	
11	O-AC	
12	O-AC W/REAR	
13	6970TR	
14	6970TR W/REAR	
15	7770A	
16	7770A W/REAR	
17	MANUAL	
18	MANUAL W/REAR	

NOTE:

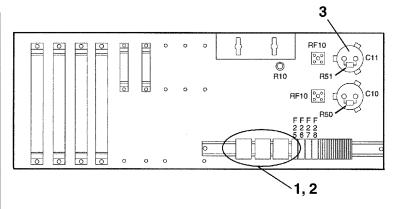
A typical door operator is shown.



	AAB21241A AAC21241A			
REF. No.	PART No.	DESCRIPTION	SYMBOL	OPERATOR ARRANGEMENT
1	226DR1	Capacitor, 1400 µF, 450 VDC	C10, C11	
	AAA375BJ23	Fuse, 3 A	F25–28	3, 4, 5, 6
2	AAA375BJ26	Fuse, 4 A	F25–28	1, 2, 7, 8, 13, 14, 17, 18
	AAA375BJ28	Fuse, 5 A	F25–28 F50–F52	9, 10, 11, 12
3	AAA653K1	Holder, Fuse	F25–28	
4	232T46	Resistor, Bleeder, 2 W, 2 KΩ	R50, R51	
5	AAA617H8	Resistor, 50 W, 25 Ω	R10	
	235H1	Transformer, 380–460 V		
6	235H3	Transformer, 440–480 V	BPS	9, 10, 11, 12
	235H2	Transformer, 550–600 V		

Type A**21241C Door Operator Interface

ARR.	OPERATOR TYPE
	0)//
1	OVL
2	OVL W/REAR
3	GAL MOD
4	GAL MOD W/REAR
5	GAL MOM/MOH
6	GAL MOM/MOH W/REAR
7	QL
8	QL W/REAR
9	7300AC
10	7300 W/REAR
11	O-AC
12	O-AC W/REAR
13	6970TR
14	6970TR W/REAR
15	7770A
16	7770A W/REAR
17	MANUAL
18	MANUAL W/REAR



NOTE:

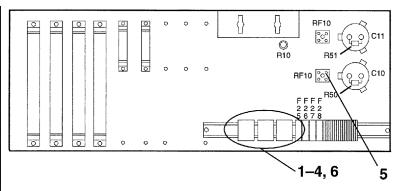
A typical door operator is shown.

AAB21241A
AAC21241A

REF. No.	PART No.	DESCRIPTION	SYMBOL	OPERATOR ARRANGEMENT
1	AAA638S201 AAA613CV102	Contact, Auxiliary, 3NO-1NC	(R)DO, DW, DC, DCOP, DST, DT	1–16
	AAA638S202 AAA613CV106	Contact, Auxiliary, 2NO-2NC	NDG	1, 2
	AAA638B2 AAA638B102	Relay, 110 VAC, 3NO-1NC Contacts	DW, RDW ADS, RADS	9, 10, 13, 14, 17, 18
2	AAA638B5 AAA638B105	Relay, 24 VDC, 3NO-1NC Contacts	(R)DO, DC, NDG, REV, DCOP, DCT, DCR, DST, DT, DDC, DDO, DL, DOX, DCRX, ADR, NDG, CMR, RCMR	1–18
3	232T46	Resistor, Bleeder, 2 W, 2 KΩ	R50, R51	

Type A**21241C Door Operator Interface

ARR. NO	OPERATOR TYPE
1	OVL
2	OVL W/REAR
3	GAL MOD
4	GAL MOD W/REAR
5	GAL MOM/MOH
6	GAL MOM/MOH W/REAR
7	QL
8	QL W/REAR
9	7300AC
10	7300 W/REAR
11	O-AC
12	O-AC W/REAR
13	6970TR
14	6970TR W/REAR
15	7770A
16	7770A W/REAR
17	MANUAL
18	MANUAL W/REAR



NOTE:

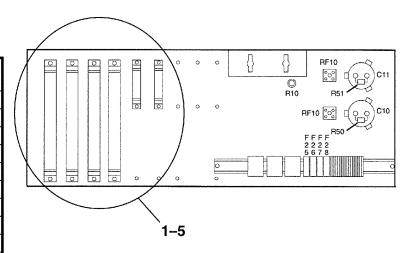
A typical door operator is shown.

AAB21241A
AAC21241A

REF. No.	PART No.	DESCRIPTION	SYMBOL	OPERATOR ARRANGEMENT
1	AAA613CZ8	Relay, 24 V	(R)DCL	15, 16
2	AAA613CZ9	Relay, 115 VAC, 4 Pole	GS, RGS	1–14
3	AAA618AF6	Relay Socket	GS, RGS	1–14
	AAA613CX302 AAA613CX702	Suppressor, 48–127 VAC	(R)DW, ADS, RADS	1–14
4	AAA613CX304 AAA613CX704	Suppressor, Diode, 12–250 VDC	(R)DO, DC, NDG, DCOP, DCT, DCR, DST, DT, REV, DOX, DCRX, ADR, NDG, CMR, RCMR	1–18
5	230BS3	Rectifier, 420 V RMS, 25 A	RF10, RF11	1–8, 11–14
6	AAA623AA1	Timer	T1, RT1, DST, RT	13, 14, 15, 16

Type A**21241C Door Operator Interface

ARR. NO	OPERATOR TYPE
1	OVL
2	OVL W/REAR
3	GAL MOD
4	GAL MOD W/REAR
5	GAL MOM/MOH
6	GAL MOM/MOH W/REAR
7	QL
8	QL W/REAR
9	7300AC
10	7300 W/REAR
11	O-AC
12	O-AC W/REAR
13	6970TR
14	6970TR W/REAR
15	7770A
16	7770A W/REAR



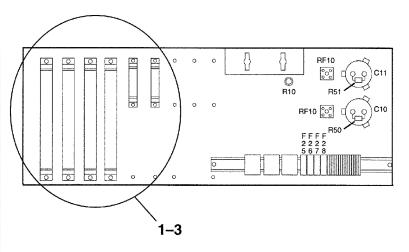
NOTE:

A typical door operator is shown. The parts used and their arrangement will vary according to the operator type.

	AAB21241A AAC21241A			
REF. No.	PART No.	DESCRIPTION	SYMBOL	OPERATOR ARRANGEMENT
1	AAA617H103	Bracket, Resistor	R10-R13, (R)DMR8	
2	232B47	Resistor, 30 W, 75 Ω	(R)DMFR1, 2	1, 2, 7, 8
2	232AA48	Resistor, 400 W, 14.1 Ω	DMR5, RDMR5	13, 14
3	232B72	Resistor, 30 W, 300 Ω , w/Conductor	(R)DMR3	1, 2
4	AAA617H8	Resistor, 50 W, 25 Ω	R10-R13, (R)DMR8	
			(R)DMR7, 8	13, 14
	AAA617K8	Resistor, Variable, 225 W, 50 Ω	(R)DMR1, 2, 3	7, 8
			(R)DMR4, 5	15, 16
5	AAA617K10	Resistor, Variable, 225 W, 250 Ω	(R)DMR1, 2, 3	1, 2, 3, 4
			(R)DMR6	15, 16
	AAA617K12	Resistor, Power, 225 W, 1000 Ω	(R)DMFR1	3, 4
	AAA617K15	Resistor, 225 W, 30 Ω	(R)DMR1, 2, 7	15, 16
	AAA617K9	Resistor, 225 W, 100 Ω	(R)DMR3	15, 16

Type A**21241C Door Operator Interface

ARR. NO	OPERATOR TYPE
1	OVL
2	OVL W/REAR
3	GAL MOD
4	GAL MOD W/REAR
5	GAL MOM/MOH
6	GAL MOM/MOH W/REAR
7	QL
8	QL W/REAR
9	7300AC
10	7300 W/REAR
11	O-AC
12	O-AC W/REAR
13	6970TR
14	6970TR W/REAR
15	7770A
16	7770A W/REAR



NOTE:

A typical door operator is shown.

	AAB21241A AAC21241A			
REF. No.	PART No.	DESCRIPTION	SYMBOL	OPERATOR ARRANGEMENT
1	AAA617K102	Clamp, Resistor		All
2	AAA617K101	Clip, Mounting, Resistor	(R)DMR1, DMFR1	9–14
	AAA617L9	Resistor, 100 W, 50 Ω	(R)DMR1-4, 4A, 5	11, 12, 13, 14
	AAA617L11	Resistor, 100 W, 150 Ω	(R)DMR1, 2	9, 10
	AAA617L12	Resistor, 100 W, 200 Ω	(R)DMR1, 2	11, 12
3	AAA617L12	Resistor, 100 W, 200 Ω	(R)DMR6, 7, 8	9, 10
	AAA617L12	Resistor, 100 W, 200 Ω	(R)DMR7A	13, 14
	AAA617L16	Resistor, 100 W, 500 Ω	(R)DMR4, 5	9, 10
	AAA617L18	Resistor, 100 W, 1000 Ω	(R)DMFR1	13, 14