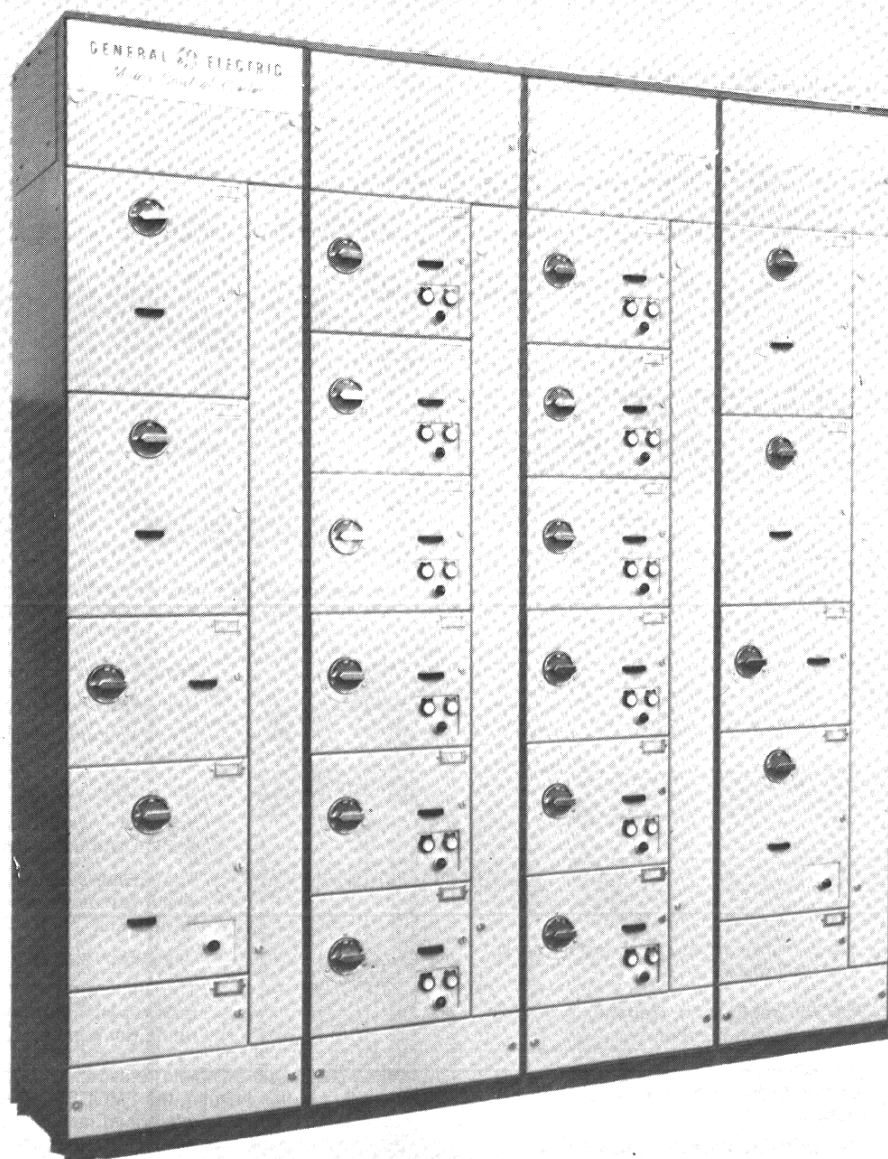




7700-Line

Motor Control Center Renewal Parts Bulletin



GENERAL  ELECTRIC

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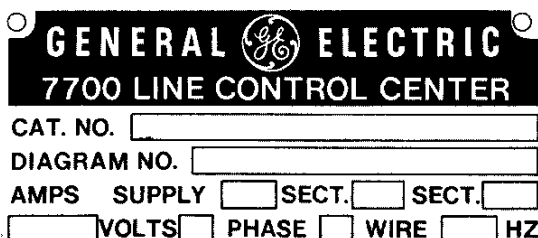
Introduction

The 7700-Line motor control center, a quality product of the General Electric Company, has been designed and manufactured to give long and satisfactory service. This Renewal Parts Bulletin contains items which, through normal use, may require periodic maintenance and replacement. Other items may never need service or replacement during the useful life of the equipment.

We feel that you are in the best position to determine your investment in Renewal Parts, taking into consideration the total amount of 7700-Line motor control centers at your facility, your proximity to General Electric franchised distributors, and the importance of minimizing equipment downtime.

Ordering Instructions

The ordering of renewal parts or complete unit replacements will be simplified by referencing the data provided on the 7700-Line motor control center section nameplate and, if required, unit nameplate.



GENERAL ELECTRIC
7700 LINE CONTROL CENTER

CAT. NO.

DIAGRAM NO.

AMPS SUPPLY SECT. SECT.

VOLTS PHASE WIRE HZ

Section Nameplate (located on the front of the MCC section, near the upper right-hand corner)

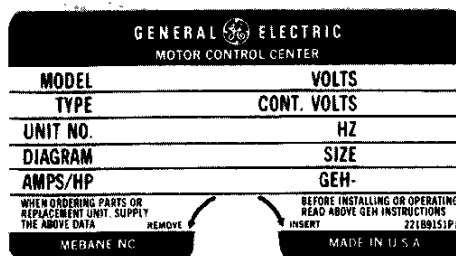
CAT. NO. The General Electric, Mebane, N.C., factory catalog number.

DIAGRAM NO. The outline summary sheet (often referred to as "record drawings") for this section.

AMPS-SUPPLY The main (i.e. horizontal) bus rating.

AMPS-SECTION The vertical bus rating.

When ordering replacement parts not identified in this bulletin, both the "CAT. NO." and "DIAGRAM NO." must be referenced, accompanied by a complete description of the replacement part(s) desired.



GENERAL ELECTRIC
MOTOR CONTROL CENTER

MODEL	VOLTS
TYPE	CONT. VOLTS
UNIT NO.	HZ
DIAGRAM	SIZE
AMPS/HP	GEH-

WHEN ORDERING PARTS OR REPLACEMENT UNIT, SUPPLY THE ABOVE DATA REMOVE

BEFORE INSTALLING OR OPERATING READ ABOVE GEN INSTRUCTIONS INSERT 22189151PL

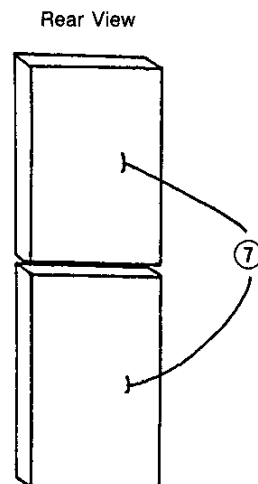
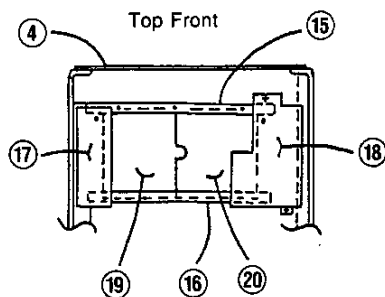
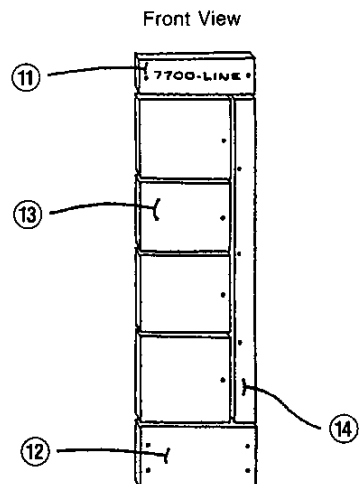
MEBANE NC MADE IN U.S.A.

Unit Nameplate (Plug-in units—located inside the unit cover door directly above the unit racking screw; Bolt-in units—located near the bottom-center of the panel base.)

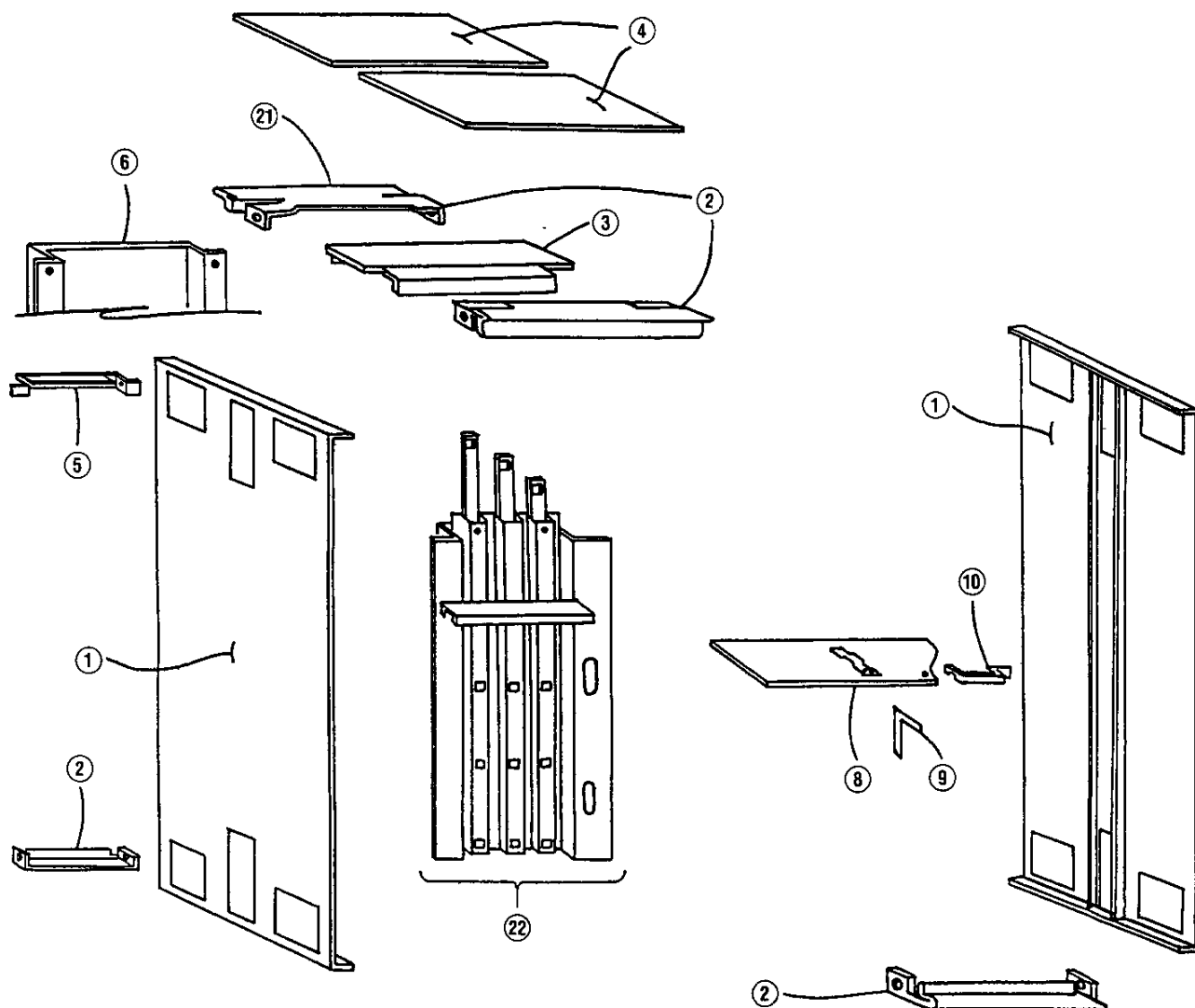
MODEL	Type of motor control center design.
VOLTS	Unit power supply voltage
TYPE	Unit function (as listed on outline-summary sheet)
CONT. VOLTS	Unit control voltage
UNIT NO.	The factory catalog number; this identifies the section and unit location within that section
DIAGRAM	The outline summary sheet and page number which contains the wiring elementary diagram for this unit
SIZE	The NEMA size rating of the starter
AMPS/HP	The ampere rating of the circuit breaker or fusible switch (for feeder unit), or horsepower rating (for combination starter units).

When ordering a complete replacement unit or replacement parts not identified in this bulletin, the "MODEL", "UNIT NO.", and "DIAGRAM" must be referenced, accompanied by a complete description of the replacement part(s) desired.

Structural Parts



Exploded View



Structural Parts (continued)

Item	Description	Catalog Number
1	Side Assembly—13-inch deep section (LH) 13-inch deep section (RH) 20-inch deep section (See Note 1)	68J210377BB1390XXB 68J210377BC1390XXB 68J210377AB2090XXB
2	Case Sill—20-inch wide section 24-inch wide section	68J110304AB20XXXXB 68J110304AB24XXXXB
3	Horizontal Channel—20-inch wide section 24-inch wide section	68J110305AB20XXXXB 68J110305AB24XXXXB
4	Top Plate—20-inch wide section 24-inch wide section	68J110311AB2020XXB 68J110311AB2420XXB
5	Rear Mullion—13-inches deep x 20-inches wide 13-inches deep x 24-inches wide 20-inches deep x 20-inches wide 20-inches deep x 24-inches wide	68J110307AB20XXXXB 68J110307AB24XXXXB 68J110306AB20XXXXB 68J110306AB24XXXXB
6	Rear Main Bus Barrier—20-inches wide (2-inch main bus only)—24-inches wide	117B5088AEG20 117B5088AEG24
7	Rear Cover (13-inches deep)—20-inches wide 24-inches wide Rear Door Assembly (20-inches deep)—20-inches wide 24-inches wide	68J120323LE0102AAB 68J120323XA0102AAB 68J210375DB2090XXB 68J210375DB2490XXB
8	Shelf Assembly—Standard Top shelf only	68J210383BBXXXXXXY 68J210383ABXXXXXXY
9	Shelf Support Bracket—Standard Bottom	117B5044P1 117B5044P2
10	Shelf Extender—20-inch wide section 24-inch wide section	205A7680P20 205A7680P24
11	Top Horizontal Wireway Cover—6-inch high/20-inch wide Section 6-inch high/24-inch wide Section 12-inch high/20-inch wide Section 12-inch high/24-inch wide Section 18-inch high/20-inch wide Section 18-inch high/24-inch wide Section	68J110309AB2006XXB 68J110309AB2406XXB 68J110309AB2012XXB 68J110309AB2412XXB 68T110309AB2018XXB 68J110309AB2418XXB*
12	Bottom Horizontal Wireway Cover	(Same Catalog Numbers as Item 11—Top Cover)
13	Filler Kit Assembly—6-inches high (See Note 2) 12-inches high 18-inches high 24-inches high 30-inches high 36-inches high 42-inches high 48-inches high	273A7764G6 273A7764G12 273A7764G18 273A7764G24 273A7764G30 273A7764G36 273A7764G42 273A7764G48

Note 1: For use only on MCC's originally equipped with 1/4" x 2" main (horizontal) bus.

Note 2: Includes blank door, shelf, shelf support, and filler strip. Referred to as a "space".

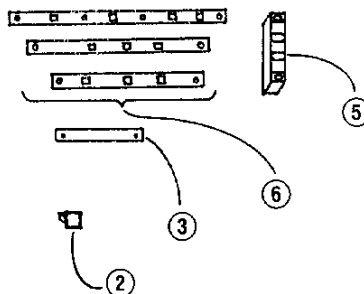
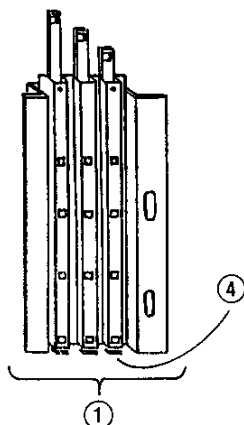
Structural Parts (Continued)

Item	Description	Catalog Number
14	Wire-through Door Assembly	68J210375CB20**XXB
	** Insert height of door in inches; 6-inch increments only, from 06 to 72.	
15	Upper Slide Channel Guide	75B132525P101
16	Lower Slide Channel Guide	117B5070P2
17	Wingplate Tab (left hand)	113A5252P1
18	Wingplate Extension—20-inches wide 24-inches wide	763B914P1 763B914P1 and 68J110327AC24XXXXB
19	Bus Barrier (left hand)—2-inch main bus 4-inch main bus	763B960G2 68J120105WE0000AAN
20	Bus Barrier (right hand)—2-inch main bus 4-inch main bus	763B960G1 68J120105WF0000AAN
21	Lintel (13-inches deep only)—20-inches wide 24-inches wide	68J110308AB20XXXXB 68J110308AB24XXXXB
22	Vertical Bus Assembly	Refer to Page 6

Common Parts Not Shown:

Bottom Plate—13-inch deep section 20-inch deep section, front 20-inch deep section, rear	68J110312AB**XXXXB 68J110312AC**XXXXB 68J110312AD**XXXXB
** Insert section width in inches (i.e., 20 or 24.	
Cable Support (for vertical wire harness)	273A7819P1
Caplug (to close holes in side of section)	246V303P102
End Cover Plate—13-inch deep section 20-inch deep section	68J110314ACXXXXXB 68J110314ABXXXXXB
Floor Channel—20-inch wide section 24-inch wide section	205A3576PIA 205A3576PIE
Grommet (Order by length in feet)	147A4760P1
Hinge Bracket—Right Hand	117B5027P3
Hinge Bracket—Left Hand	117B5027P2
Hinge Bracket Screw	N140P16008C6
Latch Assembly, 1/4 Turn (Wire-through Door)	117B5064G2
Stub Shelf (Not for plug-in use)	68J121379BB20XXXXB
Touch-up Paint, ANSI-61 (Light Gray)—Spray Can Quart Can	CE463—SPRAY CE463—QT
Blank Door (15-inches wide)—See Item 13 6-inches high 12-inches high 18-inches high 24-inches high 30-inches high 36-inches high 42-inches high 48-inches high	68J210375ABXX06XXB 68J210375ABXX12XXB 68J210375ABXX18XXB 68J210375ABXX24XXB 68J210375ABXX30XXB 68J210375ABXX36XXB 68J210375ABXX42XXB 68J210375ABXX48XXB

Vertical And Main Bus Parts



Item 1

Vertical Bus Assembly, 90-inch High Section, 2-inch Main Bus Bars

Height Of Bottom Horizontal Wireway Cover	Short-circuit Bracing	Vertical Bus Rating Amperes	Catalog Number
12-inch	22000 AIC	300	IC110V3*66#1
6-inch	22000 AIC	300	IC110V3*72#1
12-inch	22000 AIC	450	IC110V4*66#1
6-inch	22000 AIC	450	IC110V4*72#1
12-inch	22000 AIC	600	IC110V6*66#1
6-inch	22000 AIC	600	IC110V6*72#1
12-inch	42000 AIC	300	IC110V3*66#3
6-inch	42000 AIC	300	IC110V3*72#3
12-inch	42000 AIC	450	IC110V4*66#3
6-inch	42000 AIC	450	IC110V4*72#3
12-inch	42000 AIC	600	IC110V6*66#3
6-inch	42000 AIC	600	IC110V6*72#3
12-inch	65000 AIC	300	IC110V3*66#5
6-inch	65000 AIC	300	IC110V3*72#5
12-inch	65000 AIC	450	IC110V4*66#5
6-inch	65000 AIC	450	IC110V4*72#5
12-inch	65000 AIC	600	IC110V6*66#5
6-inch	65000 AIC	600	IC110V6*72#5

* For 20-inch wide section, insert "M". For 24-inch wide section, insert "A".

For Copper with Tin Immersion Plating, insert "B". For Copper with Silver Immersion Plating, insert "C".

Item 1

Vertical Bus Assembly, 90-inch High Section, 4-inch Main Bus Bars

Height Of Bottom Horizontal Wireway Cover	Short-circuit Bracing	Vertical Bus Rating Amperes	Catalog Number
6-inch	42000 AIC	300	IC110V3*66#3
12-inch	42000 AIC	300	IC110V3*60#3
6-inch	42000 AIC	450	IC110V4*66#3
12-inch	42000 AIC	450	IC110V4*60#3
6-inch	42000 AIC	600	IC110V6*66#3
12-inch	42000 AIC	600	IC110V6*60#3
6-inch	65000 AIC	300	IC110V3*66#5
12-inch	65000 AIC	300	IC110V3*60#5
6-inch	65000 AIC	450	IC110V4*66#5
12-inch	65000 AIC	450	IC110V4*60#5
6-inch	65000 AIC	600	IC110V6*66#5
12-inch	65000 AIC	600	IC110V6*60#5

* For 20-inch wide section, insert "N". For 24-inch wide section, insert "B".

For Copper with Tin Immersion Plating, insert "B". For Copper with Silver Immersion Plating, insert "C".

Item 1

Vertical Bus Assembly For Back-to-back Construction

Short-circuit Bracing	Front Vertical Bus Assembly	Rear Vertical Bus Assembly*
22000 AIC	Use Standard Catalog Number	Use Standard Catalog Number
42000 AIC	Change Last Digit of Standard Cat. No. from 3 to 4	Use Standard Catalog Number

* Must use isolator, Catalog Number 273A783P1, with vertical bus assembly.

Caution: If the original 7700-Line MCC was not ordered with back-to-back construction and was braced for 42000 AIC, the rear vertical bus assembly will not physically fit in back-to-back construction.

Item	Description	Catalog Number
2	Plug for Stab Opening	204B4050VPP1
3	Vertical Bus Isolator (top)	75A115054P101
4	Vertical Bus Isolator (bottom)	151A7284P1
5	Main Bus Support (2-in bus bars) Main Bus Insulator (4-in bus bars)	117B5047P1 75A105521P101

Vertical And Main Bus Parts (Continued)

Item 6

Main Bus Bar (2-inch)

Rating (Amps)	Material	Plating	Phase/ Location	Catalog Number	
				22000/42000 AIC Bracing	65000 AIC Bracing
600	Copper	Tin	L1-Top	193A7608P12*	148B5181P25*
600	Copper	Tin	L2-Middle	193A7609P12*	148B5181P27*
600	Copper	Tin	L3-Bottom	193A7610P12*	148B5181P29*
600	Copper	Silver	L1-Top	193A7608P11*	148B5181P1*
600	Copper	Silver	L2-Middle	193A7609P11*	148B5181P5*
600	Copper	Silver	L3-Bottom	193A7610P11*	148B5181P9*
600	Alum.	Tin	L1-Top	193A7608P3*	148B5181P4*
600	Alum.	Tin	L2-Middle	193A7609P3*	148B5181P8*
600	Alum.	Tin	L3-Bottom	193A7610P3*	148B5181P12*
800	Copper	Tin	L1-Top	193A7608P17*	148B5181P26*
800	Copper	Tin	L2-Middle	193A7609P17*	148B5181P28*
800	Copper	Tin	L3-Bottom	193A7610P17*	148B5181P30*
800	Copper	Silver	L1-Top	193A7608P14*	148B5181P14*
800	Copper	Silver	L2-Middle	193A7609P14*	148B5181P18*
800	Copper	Silver	L3-Bottom	193A7610P14*	148B5181P22*
800	Alum.	Tin	L1-Top	193A7608P6*#	148B5181P13*#
800	Alum.	Tin	L2-Middle	193A7609P6*#	148B5181P17*#
800	Alum.	Tin	L3-Bottom	193A7610P6*#	148B5181P21*#
1000	Copper	Tin	---	Same as 600 Amp only use 2 bars/phase	
1000	Copper	Silver	---	Same as 600 Amp only use 2 bars/phase	

Item 6

Main Bus Bar (4-inch)

Rating (Amps)	Material	Plating	Phase	Catalog Number	
				Front Bar	Rear Bar
1200	Copper	Tin	L1, L2 or L3	232A9481P12*	N/A
1200	Copper	Silver	L1, L2 or L3	232A9481P11*	N/A
1200	Alum.	Tin	L1, L2 or L3	232A9480P5*	232A9481P5*
1600	Copper	Tin	L1, L2 or L3	232A9480P15*	232A9481P15*
1600	Copper	Silver	L1, L2 or L3	232A9480P16*	232A9481P16*
2000	Copper	Tin	L1, L2 or L3	232A9480P19*	232A9481P19*
2000	Copper	Silver	L1, L2 or L3	232A9480P20*	232A9481P20*

* Add one letter for each vertical section in the MCC line-up, to a maximum of 3; For 20-inch wide section, add "A"; For 24-inch wide section, add "E".

Use quantity of two (2) bars per phase.

Other Common Parts Not Shown

Description	Catalog Number	
	Bus Bar	Splice Bar
Ground Bus—		
Copper, 1/4" x 1"—unplated	193A7611P5*	232A9491P1
tin plated	193A7611P14*	232A9491P4
silver plated	193A7611P13*	232A9491P5
Copper, 1/4" x 2"—unplated	193A7611P1*	151A1286P1
tin plated	193A7611P18*	151A1286P5
silver plated	193A7611P17*	151A1286P4
Aluminum, 1/4" x 2"—tin plated	193A7611P6*	193A7295P2
3/8" x 2"—tin plated	193A7611P20*	193A7295P1
Neutral Bus—		
Copper, 1/4" x 1"—tin plated	193A7612P17*	161A9259P17
silver plated	193A7612P15*	161A9259P15
Copper, 1/4" x 2"—tin plated	193A7612P13*	161A9259P10
silver plated	193A7612P12*	161A9259P9
Copper, 3/8" x 2"—tin plated	193A7612P20*	161A9259P6
silver plated	193A7612P21*	161A9259P5
Aluminum, 1/4" x 2"—tin plated	193A7612P16*	161A9259P13
3/8" x 2"—tin plated	193A7612P3*	148B5298P7

* Add one letter for each vertical section in the MCC line-up, to a maximum of 3; For 20-inch wide section, add "A"; For 24-inch wide section, add "E".

Description	Catalog Number
Alum. Joint Compound (Grease)—1/2 oz. tube	272A5509MWP4
4 oz. tube	272A5509MWP1
Neutral Bus Mounting Bracket (2-required)	151A1271P1
Neutral Bus Insulator (2-required)	796A526P1
Vertical Bus Shutter Assembly	169C6350AYG1

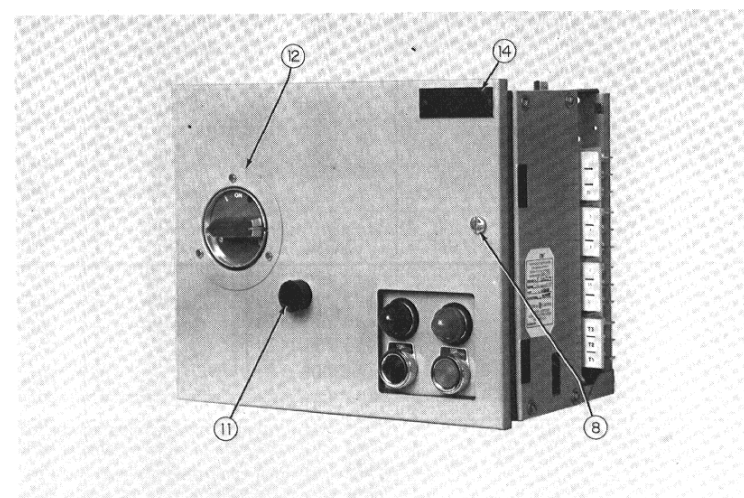
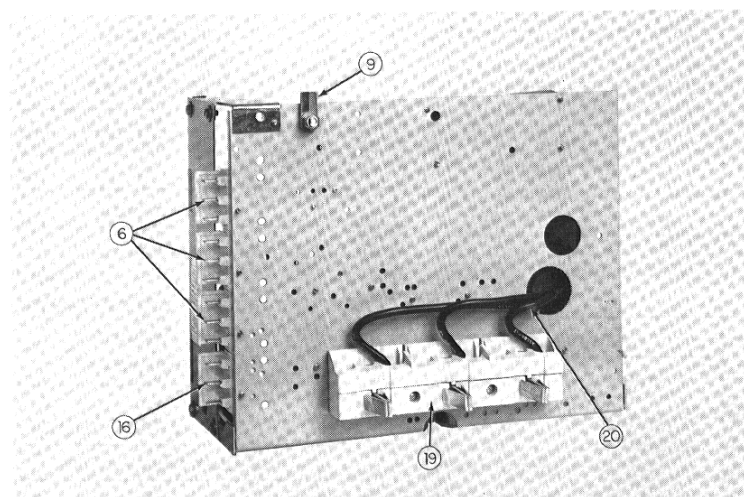
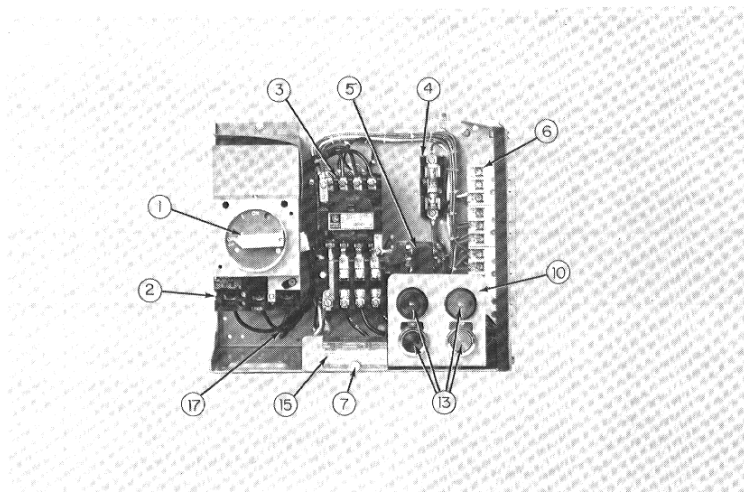
Main Bus Splice Bar Kits

Main (Horizontal) Bus Data			Bus Splice Kit Catalog Number①
Rating (Amperes)	Material	Plating	
600	Copper	Tin	272A5610G26
	Copper	Silver	272A5610G1
	Aluminum	Tin	272A5610G9②
800	Copper	Tin	272A5610G25
	Copper	Silver	272A5610G27
	Aluminum	Tin	272A5610G6②
1000	Copper	Tin	272A5610G24
	Copper	Silver	272A5610G2
1200	Copper	Tin	272A5610G23
	Copper	Silver	272A5610G13
	Aluminum	Tin	272A5610G15②
1600	Copper	Tin	272A5610G22
	Copper	Silver	272A5610G11
2000	Copper	Tin	272A5610G21
	Copper	Silver	272A5610G12

① Kit Catalog Number includes bus splices and hardware required for one complete splice of all three phases of the main (i.e. horizontal) bus.

② Aluminum joint compound (grease) must be ordered separately. Order Catalog Number: 272A5509MWP1 (4 oz. tube); 272A5509MWP4 (1/2 oz. tube).

Unit Parts



Unit Parts (continued)

Item 1—Rotary-style Handles

Circuit Breaker

Type	Horizontally Mounted Handle Catalog Number	Vertically Mounted Handle Catalog Number
TED, THED, TEC, TECL TFJ, TFK TJK TKM	TEFR1H TFKR1H TJR1H TKMR1H	TEFR1 TFKR1 TJR1 TKMR1

Fusible Disconnect

Switch Rating (Amperes)	Horizontally Mounted Handle Catalog Number	Vertically Mounted Handle Catalog Number
30-100 200	THMR1H THMR2H	THMR1 THMR2

Item 2—Branch Overcurrent Protective Device

Circuit Breaker: 7700-Line motor control centers utilize General Electric circuit breakers in combination starters, feeder tap units, and main disconnect units. Replacement circuit breakers may be purchased through the General Purpose Control Department, Mebane, NC Operation. Order by the catalog number as it appears on the device itself.

Fusible Disconnect: Modified versions of QMR and QMW switches are utilized in 7700-Line construction. When selecting the proper replacement switch, consideration must be given to the following:

1. Type of switch (QMR or QMW)
2. Size of starter, feeder tap, or main
3. Fuse amperage and type of clip
4. Power supply voltage.

Complete fusible disconnect switches consist of the switch assembly, fuse clip base or bases (as required), plus other factory modifications. Order by complete catalog number as listed in the following tables, noting the following:

1. All switches listed are rated for 600 volts; for 250 volt applications, refer to factory.
2. Installation kit must be ordered and installed with the replacement switch to obtain complete switch assembly (refer to page 12)

Unit Parts (continued)

Item 2—Fusible Disconnect Switches For Starter Units (All Functions Except Part-winding) (See Notes Below)

NEMA Size	Switch Rating (Amperes)	Fuse Clips		QMR Switch Catalog Number	QMW Switch Catalog Number	Installation Kit
		Type	Rating (Amperes)			
1	30	R	0-30	204B4053G10	204B4054G10	204B4050VEG1
		R	31-60	204B4053G11	204B4054G11	204B4050VEG1
		J	0-30	204B4053G6	204B4054G6	204B4050VEG1
		J	31-60	204B4053G7	204B4054G7	204B4050VEG1
2	60	R	0-30	204B4053G26	204B4054G26	204B4050VEG1
		R	31-60	204B4053G27	204B4054G27	204B4050VEG1
		R	61-100	204B4053G28	204B4054G28	204B4050VEG1
		J	0-30	204B4053G19	204B4054G19	204B4050VEG1
		J	31-60	204B4053G20	204B4054G20	204B4050VEG1
		J	61-100	204B4053G21	204B4054G21	204B4050VEG1
3*	100	R	31-60	204B4053G62	204B4054G62	204B4050VEG2
		R	61-100	204B4053G63	204B4054G63	204B4050VEG2
		R	101-200	204B4053G64	204B4054G64	204B4050VEG2
		J	31-60	204B4053G54	204B4054G54	204B4050VEG2
		J	61-100	204B4053G55	204B4054G55	204B4050VEG2
		J	101-200	204B4053G56	204B4054G56	204B4050VEG2
4	200	R	61-100	204B4055G14	204B4056G14	204B4050VKP1 plus 272A5650BTP1
		R	101-200	204B4055G15	204B4056G15	
		R	201-400	204B4055G16	204B4056G16	
		J	61-100	204B4055G8	204B4056G8	
		J	101-200	204B4055G9	204B4056G9	
		J	201-400	204B4055G10	204B4056G10	
5	400	R	201-400	THM3565ICD	N/A	TPBRK56A
		R	401-600	THM3566ICD	N/A	TPBRK56A
		J	201-400	THM35J5ICD	N/A	---
		J	401-600	THM35J6ICD	N/A	---

* For 24-inch high unit, refer to Spare Recommendations before ordering.

Item 2—Fusible Disconnect Switches For Feeder Units (See Notes Below)

Switch Size (Amperes)	Unit Door Height (Inches)	Fuse Clips		QMR Switch Catalog Number	QMW Switch Catalog Number	Installation Kit
		Type	Rating (Amperes)			
30	6	R	0-30	204B4053G10	204B4054G10	Kit Number 1
	6	J	0-30	204B4053G6	204B4054G6	Kit Number 1
	12	R	0-30	204B4053G10	204B4054G10	Kit Number 2
	12	J	0-30	204B4053G6	204B4054G6	Kit Number 2
60	6	R	31-60	204B4053G27	204B4054G27	Kit Number 3
	6	J	31-60	204B4053G20	204B4054G20	Kit Number 3
	12	R	31-60	204B4053G27	204B4054G27	Kit Number 4
	12	J	31-60	204B4053G20	204B4054G20	Kit Number 4
100	12	R	61-100	204B4053G44	204B4054G44	Kit Number 5
	12	J	61-100	204B4053G38	204B4054G38	Kit Number 5
200	24	R	101-200	204B4055G21	204B4056G21	Kit Number 6
	24	J	101-200	204B4055G19	204B4056G19	Kit Number 6
400	48	R	201-400	THM3565	N/A	Kit Number 7
	48	J	201-400	THM35J5	N/A	Kit Number 7
600	48	R	401-600	THM3666	N/A	Kit Number 8
	48	J	401-600	THM36J6	N/A	Kit Number 8

Notes For Item 2 (Fusible Disconnect Switch)

- All switches listed are rated for 600 volts; for 250 volt applications, refer to Spare Recommendations.
- Installation kit must be ordered and installed with the replacement switch to obtain the complete switch assembly.
- Parts called for in individual kit numbers must be ordered individually; do not order by kit number.

Unit Parts (continued)

Item 2—Fusible Disconnect Switches For Part-winding Starter Units Only (See Notes below)

NEMA Size	Switch Rating (Amperes)	Fuse Clips		QMR Switch Catalog Number	QMW Switch Catalog Number	Installation Kit
		Type	Rating (Amperes)			
1	30	R	0-30	204B4053G10	204B4054G10	204B4050VEG1
		R	31-60	204B4053G11	204B4054G11	204B4050VEG1
		J	0-30	204B4053G6	204B4054G6	204B4050VEG1
		J	31-60	204B4053G7	204B4054G7	204B4050VEG1
1 or 2	60	R	31-60	204B4053G27	204B4054G27	204B4050VEG1
		R	61-100	204B4053G28	204B4054G28	204B4050VEG1
		J	31-60	204B4053G20	204B4054G20	204B4050VEG1
		J	61-100	204B4053G21	204B4054G21	204B4050VEG1
2 or 3	100	R	101-200	204B4053G64	204B4054G64	204B4050VEG2
		J	101-200	204B4053G56	204B4054G56	204B4050VEG2
3	100	R	61-100	204B4053G63	204B4054G63	204B4050VEG2
		J	61-100	204B4053G55	204B4054G55	204B4050VEG2
3 or 4	200	R	101-200	204B4055G15	204B4056G15	204B4050VKP1
		R	201-400	204B4055G16	204B4056G16	plus
		J	101-200	204B4055G9	204B4056G9	272A5650BTP1
		J	201-400	204B4055G10	204B4056G10	
5	400	R	201-400	THM3565ICD	N/A	TPBRK56A
		R	401-600	THM3566ICD	N/A	TPBRK56A
		J	201-400	THM35J5ICD	N/A	—
		J	401-600	THM35J6ICD	N/A	—

Item 2—Fusible Disconnect Switches For Main Switches (See Notes below)

Switch Size (Amperes)	Unit Door Height (Inches)	Fuse Clips		QMR Switch Catalog Number	QMW Switch Catalog Number	Installation Kit
		Type	Rating (Amperes)			
200	30	R	101-200	204B4055G21	204B4056G21	Kit Number 9
		J	101-200	204B4055G19	204B4056G19	Kit Number 9
400	36	R	201-400	THM3565	N/A	Kit Number 7
		J	201-400	THM35J5	N/A	Kit Number 7
600	36	R	401-600	THM3666	N/A	Kit Number 8
		J	401-600	THM36J6	N/A	Kit Number 8

Notes For Item 2 (Fusible Disconnect Switch)

1. All switches listed are rated for 600 volts; for 250 volt applications, refer to Spare Recommendations.
2. Installation kit must be ordered and installed with the replacement switch to obtain the complete switch assembly.
3. Parts called for in individual kit numbers must be ordered individually; do *not* order by kit number.

Unit Parts (continued)

Installation Kit—For QMR/QMW Feeder Units And Main Switches

Catalog Number	Description	Kit Number / Quantity Required								
		1	2	3	4	5	6	7	8	9
TPBRK56A	Rejection Pin Kit (R)							1	1	
113A5436P1	Lug			3	3					
113A5437P1	Lug					3				
204B4050FVP1	Switch Insulator	1		1						
204B4050VEG1	QMR/QMW Parts Assembly		1		1					
204B4050VEG2	QMR/QMW Parts Assembly					1				
204B4050VKP1	Line Shield						1			
204B4118ACP1	Bat-wing Insulators	1		1						
204B4118ACP2	Bat-wing Insulators	1		1						
232A6981P4	Lug									3
232A6981P12	Lug								3	
264V195P1	Lug	3	3							
272A5602ESP1	Load Base Insulator		1		1					
272A5650BMP3	Line Shield	1		1						
272A5650BTP1	Line Shield Nameplate	1		1						1
272A5650KYP2	Insulator						1	1	1	1
272A5650UKP1	Insulator		1		1					1
68J122002AW0102AJB	Line Shield							1	1	
75B125076G701	Lug						3			
75B125077G701	Lug							3		

Item 3—Starter/Contactor

For correct replacement parts, refer to the appropriate renewal parts bulletin:

NEMA Size	100-Line	200-Line
1	GEF-4146	GEF-4404
2	GEF-4147	GEF-4405
3	GEF-4248	GEF-4406
4	GEF-4276	GEF-4407
5	GEF-4249	GEF-4408

Note: Renewal parts for 200-Line starters/contactors may be purchased through the General Purpose Control Department, Mebane, NC Operation. Renewal parts for 100-Line starters/contactors are only available from the General Purpose Control Department, Bloomington, IL.

Item 4—Fuse Blocks (Control Circuit)

With Control Power Transformer: 1-pole
2-pole

Primary	Secondary
BMC#2807	GE8411-3
BMC#2808	GE8421-3

Without Control Power Transformer:

117B5097G1

Item 5—Control Power Transformer

NEMA Size (FVNR/FVR)	Primary Volts	480	600	380
	Sec. Volts	120	120	115
	VA (Std.)	60 Hertz	60 Hertz	50 Hertz
1	60	302A3600CGP1	302A3600CGP25	302A3600CGP17
2	100	302A3600CGP3	302A3600CGP27	302A3600CGP19
3	200	302A3600CGP5	302A3600CGP28	302A3600CGP21
4	250	302A3600CGP6	302A3600CGP29	302A3600CGP22
Optional	75	302A3600CGP2	302A3600CGP26	302A3600CGP18
Optional	150	302A3600CGP4	N/A	302A3600CGP20
Optional	300	302A3600CGP7	302A3600CGP30	302A3600CGP23

Note: Above catalog numbers do not include secondary fuse block mounted on transformer.

Item 6—Control Terminal Board

	Catalog Number
Male (Mounted on starter unit)	75B132504G701
Female (Mounted on vertical section)	75B132505G701
Mounting Clip (For female board)	577A285P1
Marking Strip (3 pt—blank)	272A5615P101
Assembly (All of above)	204B4048G1

Unit Parts (continued)

Item 7-Racking Screw (Plug-in Units Only)

	Catalog Number
Screw	113A5164P1
Washer	113A5282P1
Retainer Washer	264V295P1

Item 8-Door Latch Assembly

Catalog Number 117B5064G2

Item 9-Unit Frame Latch Assembly

Catalog Number 117B5064G1

Item 10-Pushbutton Bracket

	Catalog Number
Blank (no holes)	151A1224P10
1 hole	151A1224P2
2 hole	151A1224P3
3 hole	151A1224P4
4 hole	151A1224P5
Plug button (gray)	CR2940UH200

Item 11-Overload Reset Assembly

NEMA Size	Function	Catalog Number
1	All	116C8961G1
2	All Except RVNR	116C8961G2
2	RVNR	116C8961G4
3	All	116C8961G3
4	All	116C8961G3
5	All	116C8961G5

Note: Above overload reset assemblies are **not** for MCC's originally equipped with 100-Line starters.

Item 12-Door Ring

Device Type	Outer Ring And Interlock Assembly	
	Device Mounted	
	Vertically	Horizontally
Circuit Breaker ("E" or "F" Frame)	973C122G1	973C122G2
Circuit Breaker ("J" Frame)	973C122G3	973C122G4
QMR/QMW (To 200 Amp)	973C122G1	973C122G2
QMR/QMW (400 or 600 Amp)	973C122G7	N/A

Item 13-Pilot Devices (Type CR2940)

	Catalog Number
Pushbutton (START)	CR2940WA310B
Pushbutton (STOP)	CR2940WA301C
Selector Switch (OFF-ON)	IC2940UB310A00
Selector Switch (HAND-OFF-AUTO)	IC2940UB311B00
Indicating Light (120 Volt)	CR2940UC212A2
Indicating Light (Trans. Type, 120 V)	CR2940UE212A2
Indicating Light (Trans. Type, 240 V)	CR2940UE212A3
Indicating Light (Trans. Type, 480 V)	CR2940UE212A4
Color Cap, Red	CR2940U200H
Color Cap, Green	CR2940U200J
Color Cap, Amber	CR2940U200K

Notes: 1. For devices not listed above, refer to GEP-694.

2. Indicating lights listed above are oiltight type, less color cap.

3. Transformer type indicating lights are 6 volt, No. 55 bulb (Cat. No. 144A4918P20).

Unit Parts (continued)

Item 14—Service Designation Nameplate (Blank)

	Catalog Number
White Face/Black Core	273A7916P3EC
Black Face/White Core	273A7916P3FC
Mounting Clip (2 required)	272A5509ASP102

Item 15—Unit Nameplate (Blank) (Refer to Page 2)

Catalog Number 221B9151P1

Item 16—Power Terminal Board

NEMA Size 1 and 2:

Male (Mounted on starter unit)
Female (Mounted on vertical section)
Mounting Clip (For female board)
Marking Strip (3 pt.—blank)
Assembly (All of above)

Catalog Number

75B132504G701
75B132505G703
577A285P1
272A5615P101
204B4048G4

NEMA Size 3:

Male (Non-hinged)
Female (Wires out top of MCC)
Female (Wires out bottom of MCC)
Plastic Cover

204B4050FKG2
204B4050FLG4
204B4050FLG1
204B4050NDP1

NEMA Size 4:

Male (Non-hinged)
Female (Wires out top of MCC)
Female (Wires out bottom of MCC)
Plastic Cover

204B4050FKG2
204B4050FLG6
204B4050FLG3
204B4050NDP1

Item 17—Load Wire Harness (Starter to power terminal board)

Function	NEMA Size	Catalog Number (For Circuit Breaker)	Catalog Number (For Fusible Disconnect)
FVNR	1	7119R47	7119R47
	2	7119R68	7119R68
	3	7119R58	7119R58
	4	7119R58	7119R62
FVR	1	7119R52	7119R52
	2	7119R49	7119R49
2S1W	1	7119R56	7119R56
	2	7119R72	7119R72
2S2W	1	7119R55	7119R55
	2	7119R50	7119R50

NOTE: Above harnesses utilize standard GE type THW (flameol) wire/cable. Do not order above catalog numbers if your motor control center was ordered with special type power wire/cable.

Item 18—Line Connection Barrier 30/60/100 ampere QMR/QMW Fusible Disconnect Switches (Only)

Catalog Number 272A5650UJP1

Item 19—Stab Assembly (Includes Plastic Base, Cover, and Stabs)

	Catalog Number
One wire/cable per phase	117B6219G1
Two wires/cables per phase	117B6219G2

Unit Parts (continued)

Item 20-Stab Power Harness (Includes harness and stab fingers)

Combination Starter Units:

NEMA Size	Function	Circuit Protective Device	Harness Catalog Number
1	FVNR-FVR-2S1W-2S2W FVNR-FVR-2S1W-2S2W	Circuit Breaker QMR/QMW	7078R95G6 7078R95G5
2	FVNR FVNR FVR-2S1W-2S2W	Circuit Breaker QMR/QMW Circuit Breaker-QMR/QMW	7078R95G6 7078R95G5 7078R95G13
3	FVNR FVNR FVNR	Circuit Breaker ("E" Frame) Circuit Breaker ("F" Frame) QMR/QMW	7078R97G12 7078R97G11 7078R97G6
4	FVNR FVNR	Circuit Breaker ("F" Frame) QMR/QMW	7078R98G14 7078R98G10

Feeder Units/Main Disconnects:

Circuit Protective Device	Rating (Amperes)	Unit Door Height (Inches)	Harness Catalog Number
Circuit Breaker	0-40	6	7078R95G9
	50-100	6	7078R97G2
	"E" Frame	12	7078R97G7
Fusible Disconnect (QMR/QMW)	30	6	7078R95G4
	60	6	7078R96G1
	30-60	12	7078R96G2
	100	12	7078R97G8

NOTE; Above harnesses utilize standard GE type THW (flamenol) wire/cable. Do **not** order above catalog numbers if your motor control center was ordered with special type power wire/cable.

For further information
call or write your local
General Electric
Sales Office or . . .

General Electric Company
General Purpose
Control Department
P. O. Box 489
Mebane, NC 27302

GENERAL  **ELECTRIC**