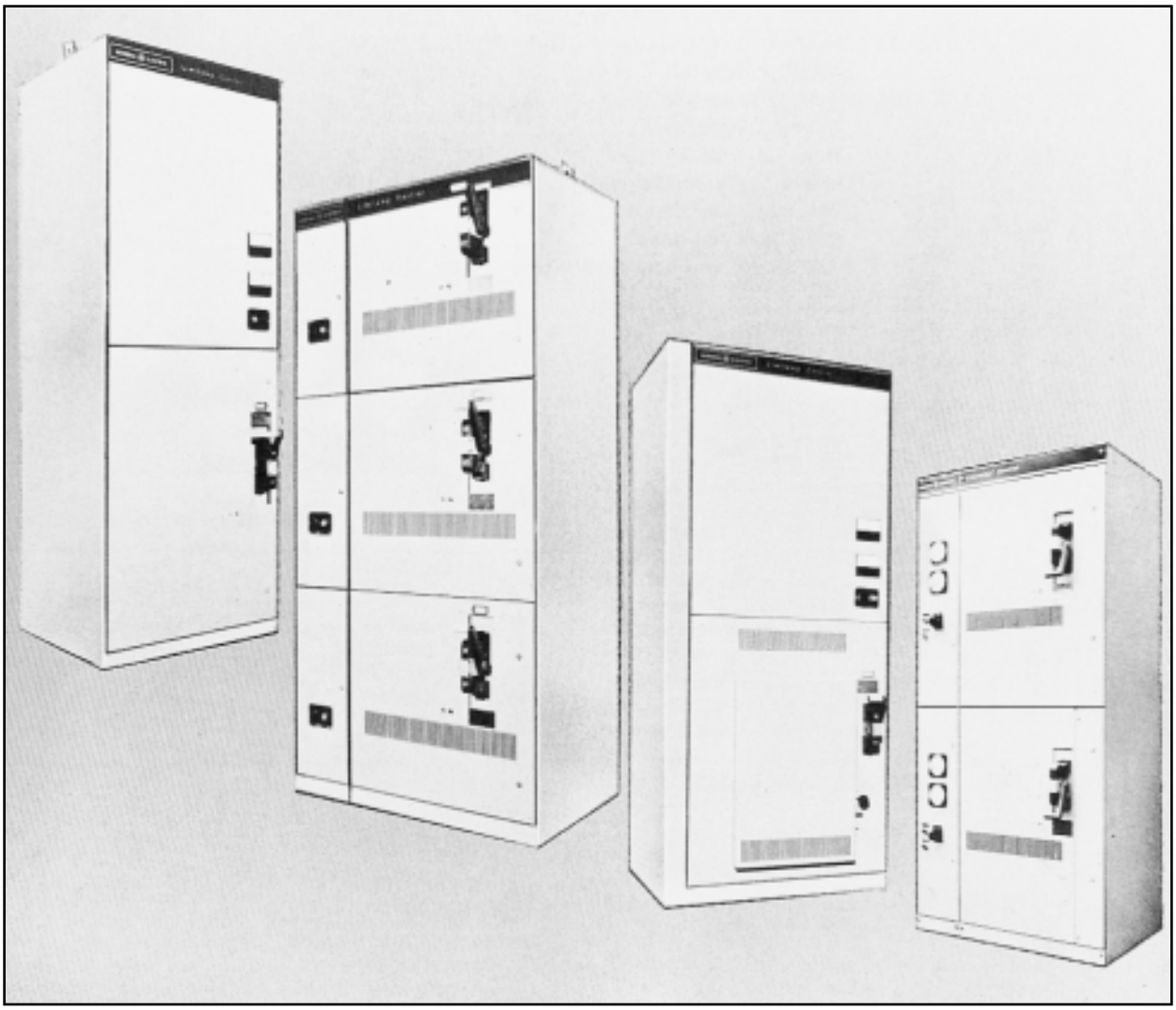
GEF-4630A

Limitamp® Medium-Voltage Motor Control



CR7160 Renewal Parts Bulletin

Table of Contents

Warning: Before any adjustments, servicing, parts replacement or any other act is performed requiring physical contact with the electrical working components or wiring of this equipment, all power must be removed and locked off from all sources and all attached rotating equipment must have come to a complete stop. User personnel must be completely familiar with the following operating and maintenance instructions before attempting to service this equipment.

Introduction

The CR7160 Limitamp® Controller, a quality GE product, was designed and manufactured to give long and satisfactory service. This bulletin contains items that, through normal use, may require periodic replacement; other items may never need service or replacement during the useful life of the equipment.

Reference Publications

GEH-3091 — Instructions for Air Break Controllers
GEH-3102 — Instructions for Contactor
GEH-3140 — Application Data
GET-6840 — Application and Selection Guide
GEH-4989 — CR7160 Drawout Vacuum Contactor

For additional assistance, please refer to factory.

Parts Identification

This bulletin will provide the information necessary to identify, by description or actual catalog number, replacement parts for CR7160 Limitamp® Motor Controllers.

The following pages will describe where important equipment identification numbers can be found and provide catalog numbers for assemblies and individual parts that may require periodic replacement through normal wear.

Table 1.
CR7160 Publication Abbreviations

AC	Alternating Current	LH	Left Hand
Asm.	Assembly	LV	Low Voltage
Cont.	Contactor	MB	Main Bus
CPT	Control Power Transformer	Mtr.	Motor
CT	Current Transformer	NC	Normally Closed
GFCT	Ground Fault Current Transformer	NO	Normally Open
		NP	Nameplate
Horz.	Horizontal	PT	Potential Transformer
HV	High Voltage	RH	Right Hand
Inc.	Incoming	Supt.	Support
Instr.	Instruction	VB	Vertical Bus

Should a situation arise in which a part cannot be identified, the factory should be contacted. In order for the factory to provide assistance in identifying the part, the Catalog Number and Diagram Number of the equipment must be known (see Limitamp Panel Data Nameplate).

High-Voltage Contactor Nameplate

High-voltage contactor renewal parts are found in separate renewal parts publications depending on the contactor catalog number. This catalog number is found on the contactor nameplate mounted on the steel bracket directly above the contactor coil. An example of this nameplate is shown below:

Figure 1. High-Voltage Contactor Nameplate

The proper publication can be selected from the following table:

Table 2.
CR7160 High-Voltage Contactor Renewal Parts Publications

CR7160 Air Break	
Contactor Catalog Number	Renewal Parts Publication
IC302A	GEF-4551
IC302B	GEF-4573
IC302C	GEF-4574
IC302D	GEF-4575
IC302E	GEF-4576
IC2814	GEF-4537

CR7160 Vacuum	
Contactor Catalog Number	Renewal Parts Publication
CR193V	GEF-3017
CR193W	GEF-3017

Limitamp Panel Data Nameplate

This nameplate is mounted near the starter handle operator on the high-voltage door. It contains all the necessary information for the factory to positively identify the starter and its bill of material. This information must accompany all part orders and quotation requests. An example of this nameplate is shown below:

Figure 2. Limitamp Panel Data Nameplate

The required information is the catalog number and the diagram number. The catalog number from the sample above is 0607X0431V02 A01. The number can be broken down as follows: 0607X0431 is the material list number or shop order number for the job, V02 is the overall lineup designation, and A01 is a section in that lineup. The diagram number identifies the group of drawings that pertain to this particular project order.

Sections that do not have a panel data nameplate will have a compartment nameplate mounted on the right side door flange. An example is shown below:

Figure 3. Limitamp Compartment Nameplate

This will provide the catalog number only. The diagram number can be obtained from any *Panel Data Nameplate* on that lineup.

Catalog Numbering System

Limitamp control is manufactured in three construction types: one-high, two-high and three-high. One-high construction consists of one medium-voltage contactor in one 90-inch-high enclosure. Two-high construction contains two medium-voltage contactors in one 90-inch-high enclosure. Three-high construction has three medium-voltage contactors in one 90-inch-high enclosure.

You should first determine the construction type (one-high, two-high or three-high) of your equipment. After determination, the following pages should be consulted:

- ▲ Pages 4 and 5 for one-high construction
- ▲ Pages 6 and 7 for two-high construction
- ▲ Pages 8 and 9 for three-high construction

Caution should be observed in that a part number in one-high construction may have a different description and catalog number than the same part number in two- or three-high construction.

Another method of identifying construction is through the controller "CR" number (shown on the panel data nameplate). *Example: Catalog Number 7160A118G. The alpha suffix determines one-high, two-high or three-high;* ***G*** *is one-high,* ***K*** *is two-high and* ***H*** *is three-high.* Vacuum starters are designated by an M suffix. *Example: Catalog Number 7160A118GM.*

This "CR" number is further referenced in GEH-3091.

One-High

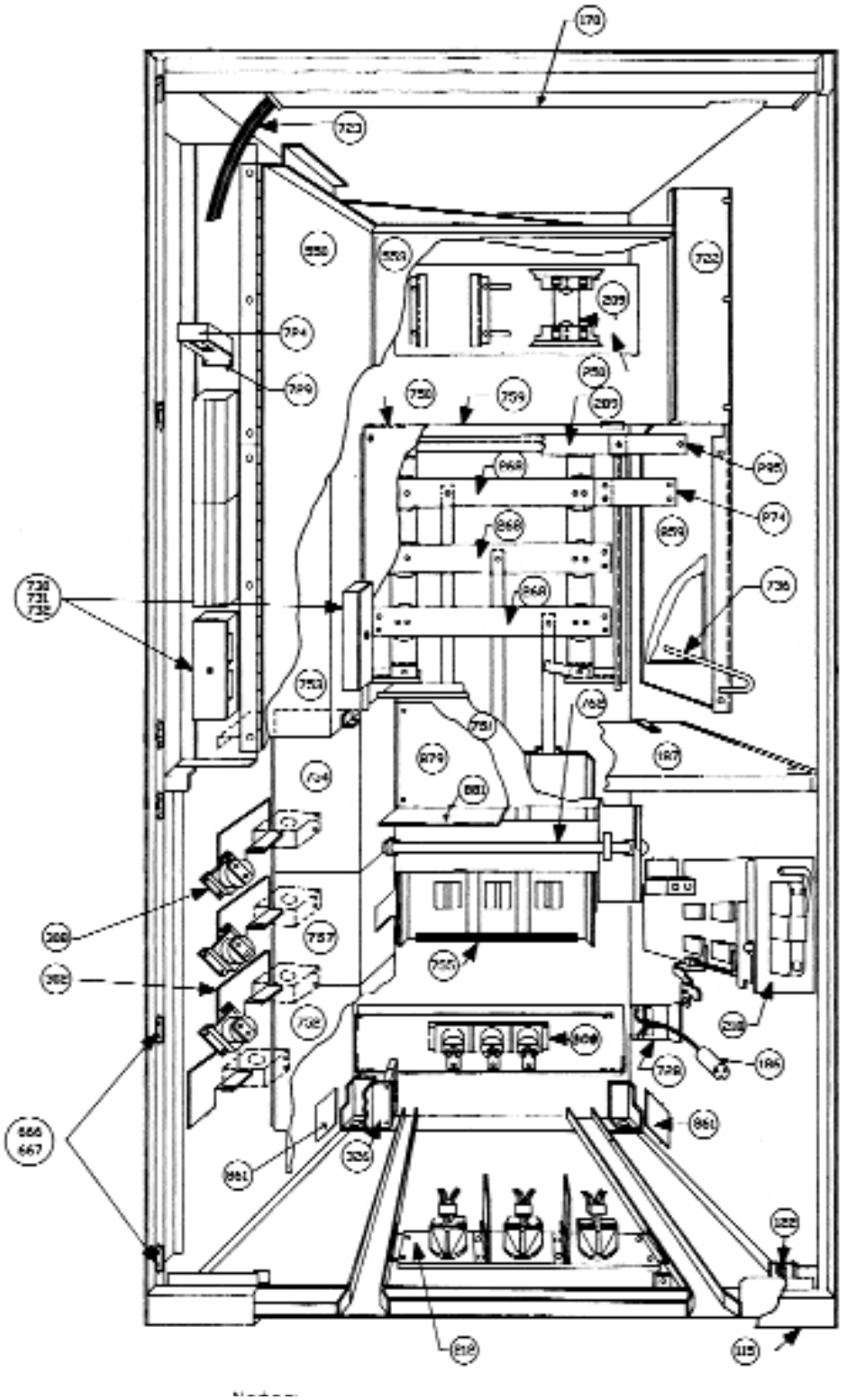


Figure 4. CR7160 One-High

Notes:
290 - Not Shown
500/501/502 - Located on LV Base
578/579 - Located at rear of Swingout (item 550)
803 - Mounted on Contactor

Table 3.
CR7160 34" Wide One-High Drawout Air/Vacuum Parts List (See Figures 4 and 5)

Material List Item Number	Part Description	Part Number	Qty.
115	Lintel	68J210552AM34XXXXB	1
122	Lintel Catch	194A7164G1	1
170	Wire Trough	68J222210CB0000AAB	1
187	Compartment Barrier Asm.	117B4515G6	1
194	Door Interlock Defeater	194A6916G1	1
209	CPT Primary Fuse Supt. Asm.	55C682289G* ❶	1
212	Intermediate Stab Asm. w/o PT	149B1743G6	1
212	Intermediate Stab Asm. w/ PT	149B1743G5	1
218	Handle Asm.	116C9928G* ❷	1
250	CPT Mounting Base	68J210552AB34XXXXB	1
268	AC Bus Copper	104B9369P* ❸	3
274	AC Splice Copper	Consult factory	3
289	Ground Bus	104B9334P* ❹	1
290	Ground Bus Link-Copper	232A9331P* ❺	1
295	Ground Bus Splice-Copper	Consult factory	1
302	Window CT Supt.	219A1229P1	3
308	Dummy CT Plate	394B686G11	3
309	Motor Stab Asm.	149B1743G4	1
326	Multilin GFCT Supt.	68J122212VH0000AAB	1
326	2-1/2" Window GFCT Supt.	219A1229P1	1
500	Test Switch 10A	CR104PSG21B92	1
500	Test Switch 20A	328A1141P1	1
501	Switch NP 10A	328A1140P1	1
501	Switch NP 20A	Included with item 500 (20A)	1
502	Test Switch Mounting Bracket	68J122214NS0000AAB	1
550	Swingout Panel	68J222222SM0000AAB	1
553	LV Base	68J120132BT0504AAB	1
578	Swingout Barrier	68J122220DT0000AAB	1
579	Swingout Barrier	68J122220DS0000AAB	1
653	LV Door	Consult factory	1
656	Bottom Door	Consult factory	1
659	Door Latch Asm.	104B9336G2	3
666	Door Hinge Pin	1459941P1	6
667	Door Hinge	147A4728G1	6
722	Swing Base Stop-Barrier	68J120125DL0000AAB	1
723	Wire Harness	7118R50G2V	1
724	Control Wire Plug-Bottom	128C6635P1	1
724A	Control Wire Plug-Top	128C6636P1	1
724B	Plug Socket	AMP# 350638-1	15
724C	Plug Pin	AMP# 350639-1	15
724D	Crimper Tool	AMP# 90124-2	1
728	Coil Plug	169B7635G5	1
729	Wire Plug Supt.	219A1225P1	1
730	Wire Comb Cleat	171B4725P1	3
731	Wire Comb Cover	171B4726P1	3
732	Wire Comb Supt.	219A1242P1	1
736	Swingout Handle	104B9322P6	1
750	AC Bus Barrier (Inc. Line)	149B1753G1	1
750	AC Bus Barrier (no Inc. Line)	149B1753G2	1
751	VB Barrier Asm. (Inc. Line)	149B1753G4	1
751	VB Barrier Asm. (no Inc. Line)	149B1753G3	1
752	Lower Inc. Line Barrier Bottom	194A6985G1	1
753	Upper Inc. Line Barrier	245A4374G3	1
754	Lower Inc. Line Barrier Upper	68J120125MF0000AAB	1
755	VB Barrier Bottom Cover	194A6968P2	1
756	Barrier Extension	302A3732P1	1
757	Lower Inc. Line Barrier Center	68J120125MG0000AAB	1
759	AC Bus Barrier Upper Shelf	68J210553AJXXXXXXB	1
762	Shutter-Bus Asm.	194A4480G* ❻	1
803	Power Fuse	❼	3
859	Bus Cover Plate	68J120125BM0000AAB	2
861	Cable Cover Plate	194A7197P5	2
879	PT Base	68J120131AL0000AAB	1
881	PT Insulator	205A4475P2	1

❶ See Table 19.
❷ See Tables 6 and 7.
❸ See Table 9.
❹ See Table 12.
❺ Add suffix (*) per plating finish: 1=no plating, 2=Silver, 3=Tin.
❻ See Table 11.
❼ See panel data NP for fuse part number.

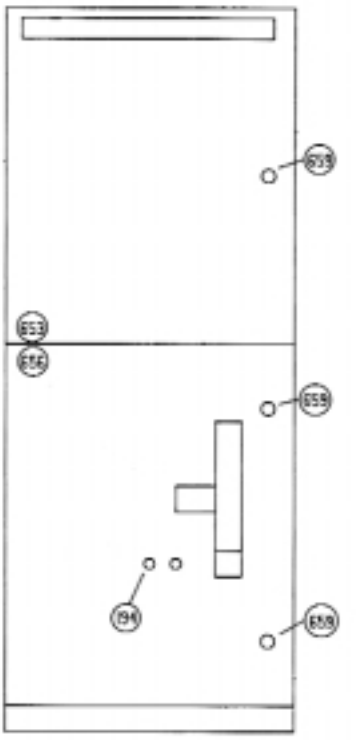


Figure 5. CR7160 One-High Door Detail

Two-High

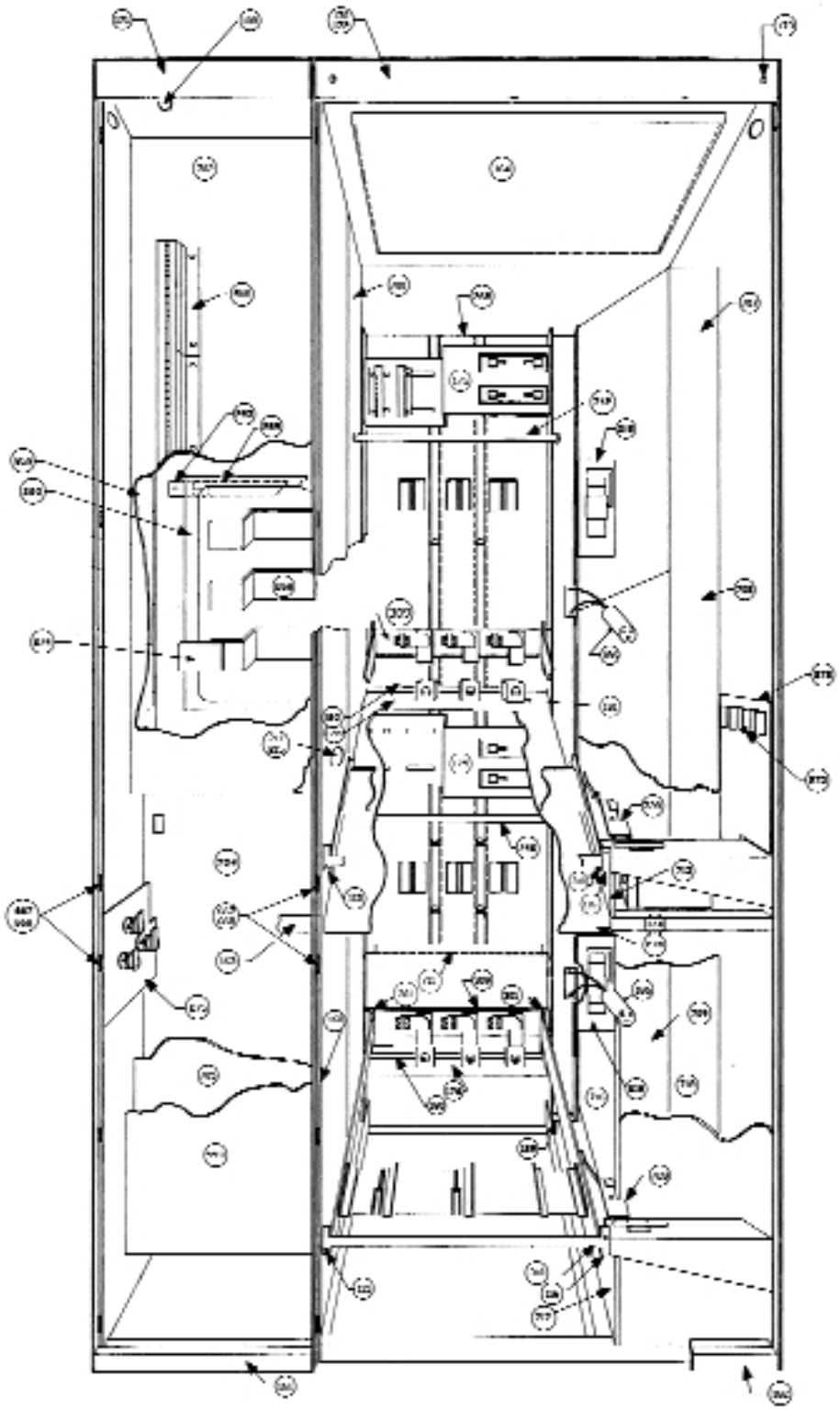


Figure 6. CR7160 Two-High

Notes:
290 - Not Shown
500/501/502 - Located on LV Base
720 - Not Shown
803 - Mounted on Contactor
860 - Not Shown