

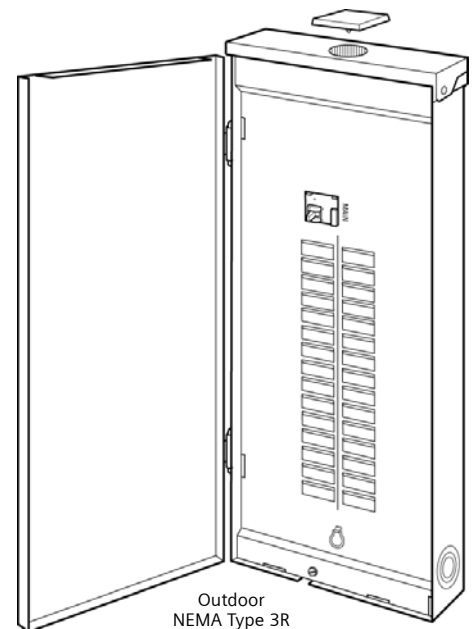
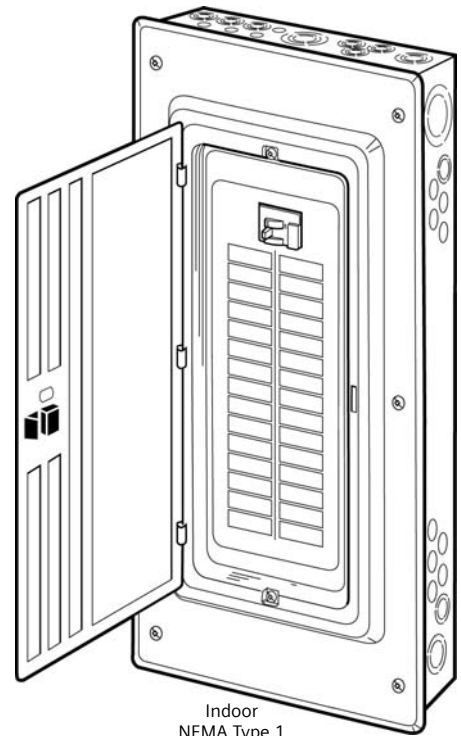
# Ultimate<sup>®</sup> Load Centers

## General Information

### FEATURES

- UL Listed.
- INSTA-WIRE™ neutrals, grounds, and circuit breakers provide quick conductor installation.
- Visible neutrals aid in conductor installation.
- Combination slot/square head screws.
- Factory installed ground bars on all main lug load centers.
- Pre-positioned bond screw makes bonding a snap.<sup>①</sup>
- All devices convertible from main lug to main breaker and vice-versa.
- All factory installed main breakers are bolt on, straight in wired.
- All load centers are invertible for bottom feed applications.
- Lifetime warranty on Siemens installed circuit breakers.<sup>②</sup>
- Trim mounting tabs free up both hands to install the trim.
- Tangential knockouts eliminate the need for conduit offsets.
- Combination flush / surface mount trim.
- The 'SG' line of main lug load centers come with a 100% provision neutral and a 100% provision ground.<sup>③</sup>
- The 'SG' load centers come with a neutral tie strap which allows conversion to service entrance equipment.
- The side-hinged door on the outdoor load center can be removed by backing out only one screw.
- Type QP, QPH, and HQPH circuit breakers can be used as backfed mains on any Ultimate Load Center<sup>④</sup> when used in conjunction with MBR2 hold down kit.
- The neutral tie strap on Ultimate Load Centers can be removed to convert the left neutral bar into a ground bar, and to isolate the right neutral bar. A lug kit, LKB1 is required for this type of installation.<sup>④</sup> The INTS, insulated neutral tie strap, is not needed on Ultimate Load Centers.
- Acceptable main breakers:
  - 225A load centers  
MBK225A, MBK200A, MBK150A, all Type QP circuit breakers backfed
  - 200A load centers  
MBK200A, MBK150A, all Type QP circuit breakers backfed
  - 150A load centers  
MBK150A, all Type QP circuit breakers backfed
  - 125A load centers  
MBK125A, MBK100A, all Type QP circuit breakers backfed
  - 100A load centers  
MBK100A, all Type QP circuit breakers backfed, with the exception of the 125A Type QP circuit breakers.
- The neutrals and grounds in the Ultimate Load Center are NEC<sup>⑤</sup> and UL approved to accept multiple ground conductors.<sup>④</sup>
- Load centers do not have fire ratings for use in firewalls.
- Copper load centers are recommended for those applications where the environment may be severe, (i.e. farm and coastal areas) or where a premium panel is desired).

- ① Prepositioned bond screw should be driven down prior to installation of load center in surface mount applications.
- ② Excluding AFCI, GFCI, and surge breakers.
- ③ G1224L1125CUSG has 83% neutrals and grounds.
- ④ See the wiring diagram on the panel door for the latest product information.
- ⑤ NEC is a registered trademark of the National Fire Protection Association.



# fastfax

# SIEMENS

# Ultimate<sup>®</sup> Load Centers

## Main Breaker and Main Lug/Convertible Catalog Numbers

### Main Breaker/Convertible Load Centers <sup>①</sup>

12–42 Circuits / 100–225 Amperes

Aluminum or Copper Bus  
60/75°C / Rated 22,000A IR <sup>②</sup>

Branch Circuits				Indoor Enclosure – NEMA Type 1			Outdoor Enclosure – NEMA Type 3R	
Main Ampere Rating	Max. No. of 1-Pole		Max. 2-Pole	Aluminum Bus Catalog Number	Copper Bus Catalog Number	Enclosure Height (inches) <sup>③</sup>	Copper Bus Catalog Number	Enclosure Height (inches) <sup>④</sup>
	Spaces	Circuits						
<b>1 Phase, 3 Wire SN</b>								
100	12	24	6	G1224B1100	G1224B1100CU	18	W1224B1100CU	21
100	16	24	8	G1624B1100	G1624B1100CU	21	W1624B1100CU	21
100	20	20	10	G2020B1100	G2020B1100CU	24	W2020B1100CU	29
100	24	24	12	–	G2424B1100CU	24	–	–
100	30	30	14	–	G3030B1100CU	30	–	–
125	24	24	12	G2424B1125	–	30	–	–
150	16	30	8	G1630B1150	–	24	–	–
150	20	30	10	G2030B1150	G2030B1150CU	30	–	–
150	24	30	12	G2430B1150	–	30	–	–
150	30	30	14	G3030B1150	G3030B1150CU	36	–	–
200	8	16	4	–	–	–	W0816B1200CT <sup>⑧</sup>	27
200	20	40	10	G2040B1200	G2040B1200CU	30	W2040B1200CU	29
200	24	40	12	G2440B1200	–	30	–	–
200	30	40	14	G3040B1200	G3040B1200CU	36	W3040B1200CU	38
200	40	40	20	G4040B1200	G4040B1200CU	39	W4040B1200CU	38
225	42	42	21	–	G4242B1225CU <sup>⑨</sup>	42	W4242B1225CU <sup>⑨</sup>	42

### Main Lug/Convertible Load Centers <sup>⑤</sup>

12–42 Circuits / 125–225 Amperes

Aluminum or Copper Bus  
60/75°C / Rated 100,000A IR

Branch Circuits				Indoor Enclosure – NEMA Type 1			Outdoor Enclosure – Type 3R	
Main Ampere Rating	Max. No. of 1-Pole		Max. 2-Pole	Aluminum Bus Catalog Number	Copper Bus Catalog Number	Enclosure Height (inches) <sup>③</sup>	Copper Bus Catalog Number	Enclosure Height (inches) <sup>④</sup>
	Spaces	Circuits						
<b>1 Phase, 3 Wire SN</b>								
125	12	12	6	G1212L1125 <sup>⑥</sup>	G1212L1125CU <sup>⑥</sup>	21	W1212L1125CU <sup>⑥</sup>	21
125	12	24	6	G1224L1125 <sup>⑥</sup>	G1224L1125CU <sup>⑥</sup>	21	W1224L1125CU <sup>⑥</sup>	21
125	16	24	8	G1624L1125	G1624L1125CU	21	W1624L1125CU	23
125	20	20	10	G2020L1125	G2020L1125CU	24	–	–
125	24	40	12	G2424L1125	G2440L1125CU	30	–	–
125	30	40	14	–	G3040L1125CU	30	–	–
150	20	30	10	G2030L1150	G2030L1150CU	30	W2030L1150CU	29
200	8	16	4	–	–	–	W0816L1200CT <sup>⑧</sup>	27
200	12	24	6	–	G1224L1200CU <sup>⑥</sup>	24	W1224L1200CU <sup>⑥</sup>	27
200	20	40	10	G2040L1200	G2040L1200CU	30	W2040L1200CU	29
200	24	40	12	G2440L1200	G2440L1200CU	30	–	–
200	30	30	14	G3030L1200	G3030L1200CU	36	–	–
200	30	40	14	G3040L1200	G3040L1200CU	36	W3040L1200CU	35
200	40	40	20	G4040L1200	G4040L1200CU	39	W4040L1200CU	38
225	12	24	6	–	–	–	W1224L1225CU	27
225	42	42	21	–	G4242L1225CU <sup>⑨</sup>	42	W4242L1225CU <sup>⑨</sup>	42

### SG Series Main Lug/Convertible Load Centers <sup>⑤⑦</sup>

12–40 Circuits / 125–200 Amperes

Copper Bus  
60/75°C / Rated 100,000A IR

Branch Circuits				Indoor Enclosure – NEMA Type 1	
Main Ampere Rating	Max. No. of 1-Pole		Max. 2-Pole	Copper Bus Catalog Number	Enclosure Height (inches) <sup>③</sup>
	Spaces	Circuits			
<b>1 Phase, 3 Wire SN</b>					
125	12	24	6	G1224L1125CUSG	21
125	16	24	8	G1624L1125CUSG	24
125	20	30	10	G2030L1125CUSG	24
125	24	30	12	G2430L1125CUSG	30
150	20	30	10	G2030L1150CUSG	30
200	30	40	15	G3040L1200CUSG	36
200	40	40	20	G4040L1200CUSG	39

① Suitable for use as service entrance equipment.

② May be installed on higher rated systems when protected by a circuit breaker with a higher AIR rating. See equipment markings.

③ Indoor enclosures are 14-3/8" wide by 3-15/16" deep.

④ Outdoor enclosures are 14-1/2" wide by 4-1/4" deep.

⑤ See equipment markings for details.

⑥ Suitable for use as service entrance equipment when not more than six main disconnecting means are provided and when not used as a lighting and appliance branch circuit panelboard. See article 40F.14 (384-14) of the NEC.

⑦ Factory installed 100% neutral with factory bonded 100% ground. No neutral tie strap.

⑧ Comes with feed-thru lugs.

⑨ Tin-plated copper bus bars.

# Ultimate<sup>®</sup> Load Centers

## electriCenter Accessories

Description	Catalog Number	Std. Pkg.	Shp.Wt. (lbs/std)
Surface Mount Spacer Kit (1/4")	ECSMK1	10	.10
Filler Plates			
– for branch breakers and 150-225A Ultimate Main Breaker opening (2 required for 150-225A main breaker opening)	ECQF3	100	.25
– for 100 and 125A main breaker opening	ECMBF125	25	.25
Load Center Trim Screw (order quantity of 1 equals bag with 6 screws) Reference hole in enclosure	ECTS2	100	6
Insulated Isolated Ground Bars			
– 5 positions	ECINSGB5	20	1
– 14 positions	ECINSGB14	20	3
– 20 positions	ECINSGB20	20	4
Circuit Directory Card (42 circuit) self-adhesive	ECCP1	100	1
Neutral Lug Kits			
– Wire Range #2 - 1/0 AWG Cu/Al	ECLK1-2	50	
– Wire Range #4 - 2/0 AWG Cu/Al	ECLK2	50	2
– Wire Range #1 - 300 MCM Cu/Al	ECLK3	10	2
– with Bond Screw (Ultimate Load Centers)	ECLKB1	10	.10
Collar Straps			
– Wire Range #14-1/0 AWG Cu/Al, for use with ground bar only	ECCS1	50	2
– Wire Range #6 WG-250 kcmil Cu/Al, for use with ground bar only	ECCS2	50	2
Ground Bar Kits			
– 5 position, Cu/Al Wire Range – #4-14	ECGB5	20	2
– 10 position, Cu/Al Wire Range – #4-14	ECGB10	20	2
– 14 position, Cu/Al Wire Range – #4-14	ECGB14	20	2
– 20 position, Cu/Al Wire Range – #4-14	ECGB20	20	2
– 10 position, Cu/Al Wire Range – #4-14, plus 1 position #14-1/0 Cu/Al	ECGB101	20	4
– 14 position, Cu/Al Wire Range – #4-14, plus 1 position #14-1/0 Cu/Al	ECGB141	20	4
– 20 position, Cu/Al Wire Range – #4-14, plus 1 position #14-1/0 Cu/Al	ECGB201	20	4
– 14 position, Cu/Al Wire Range – #4-14, plus 1 position #6-2/0 Cu/Al	ECGB142	20	4
– 20 position, Cu/Al Wire Range – #4-14, plus 1 position #6-2/0 Cu/Al	ECGB202	20	4
Lug Kits, 2-pole			
– Wire Range – #3-1 AWG Cu, #1/0 AWG Al, subfeed or feed-thru applications	ECLK2125	1	.25
– Wire Range – #14-2/0 Cu, #8-3/0 Al, subfeed or feed-thru applications	ECLK2150	1	.25
– Wire Range – #1-300 mcm Cu/Al, subfeed or feed-thru applications	ECLK2225	1	.25
Main Breaker Conversion Kits, for the Ultimate Load Center. Converts main lug load centers to main breaker load centers:			
– 100 Amp (100 and 125 amp Load Centers)	MBK100A	1	1.10
– 125 Amp (125 amp Load Centers)	MBK125A	1	1.10
– 150 Amp (150, 200 and 225 amp Load Centers)	MBK150A	1	2.19
– 200 Amp (200 and 225 amp Load Centers)	MBK200A	1	2.19
– 225 Amp (225 amp Load Centers)	MBK225A	1	2.19
Main Lug Conversion Kits. Converts Ultimate main breaker load centers to main lug load centers:			
– 100 to 125 Amps	ECMLK125	1	.125
– 150 to 225 Amps	ECMLK225	1	.125
Backfed main breaker hold down used with Type QP breakers:			
– Ultimate Load Centers	ECMBR2	25	.02
– EQ Load Centers (60 amps and higher)	ECMBR1	25	.02

## Hubs

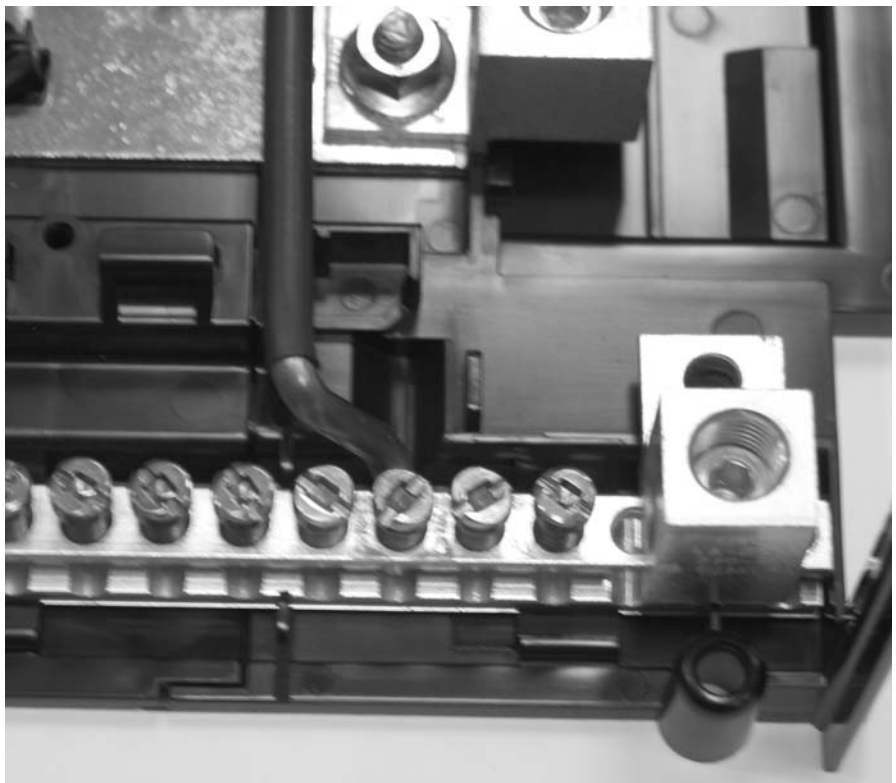
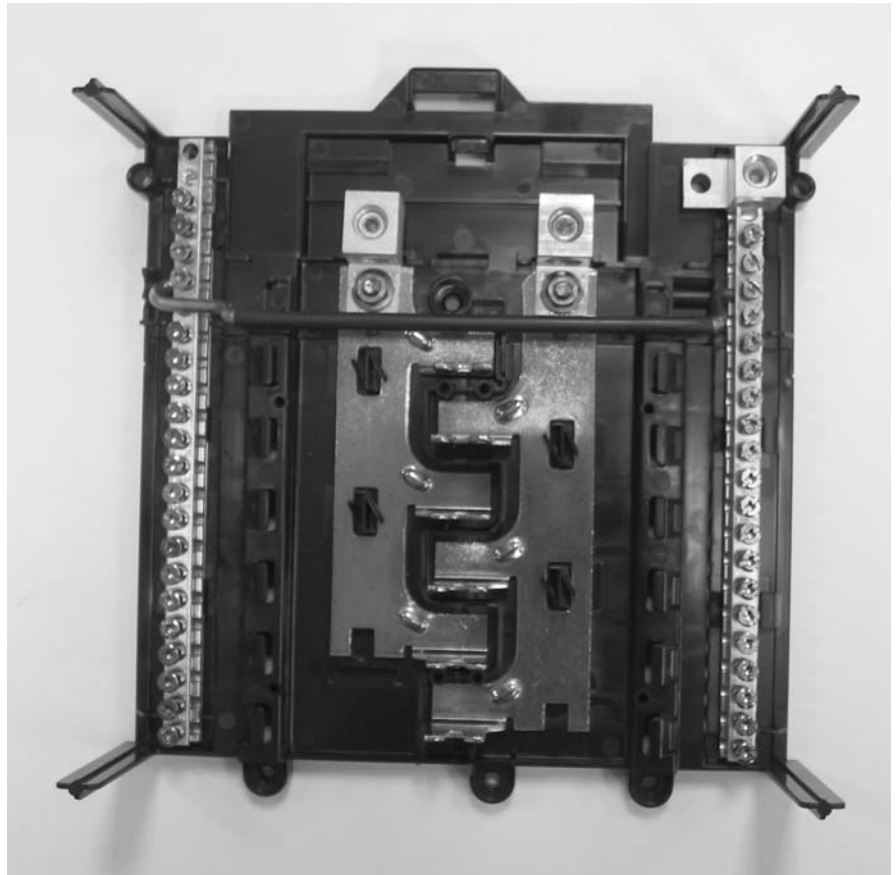
Conduit Size	Catalog Number	Shp.Wt. (lbs.)/Std.	Std. Pkg.
1-1/4"	ECHS125	14	35
1-1/2"	ECHS150	14	35
2"	ECHS200	14	35
2-1/2"	ECHS250	14	35

# Ultimate<sup>®</sup> Load Centers

## Neutral Tie Strap

### FEATURES

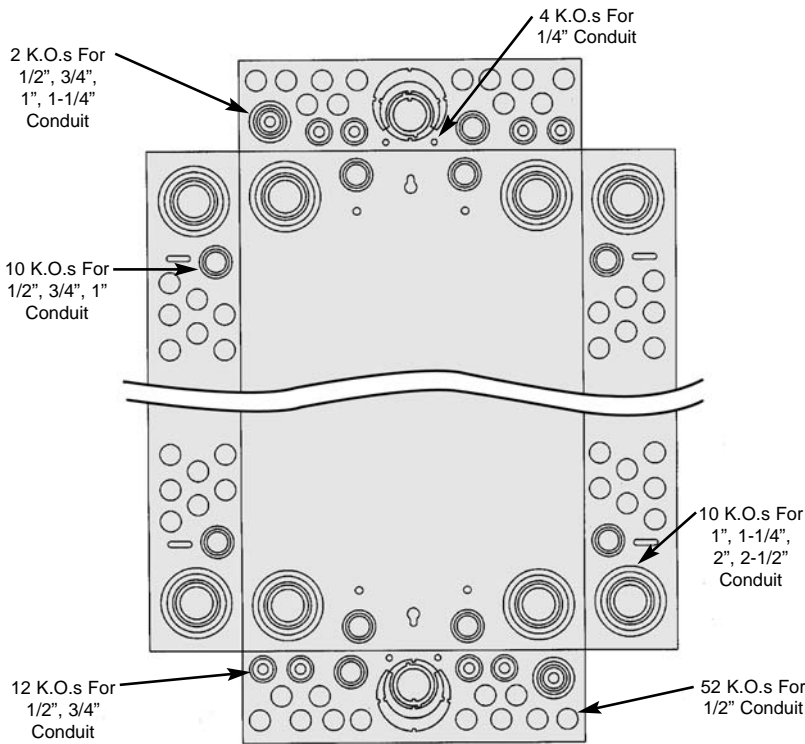
- UL Listed.
- #4 solid, insulated, copper conductor.
- Provides three more neutral positions than previous design.



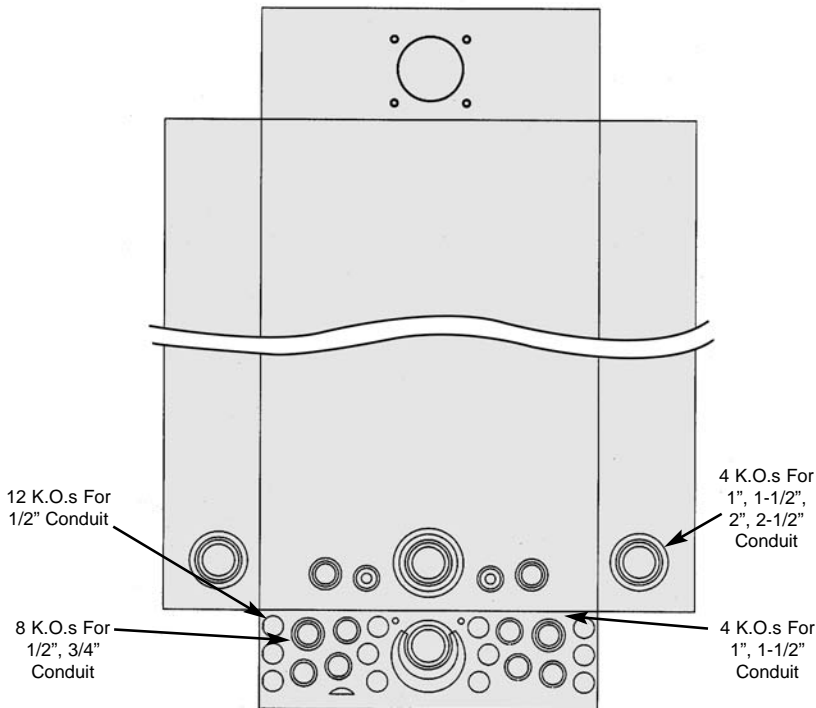
# Ultimate<sup>®</sup> Load Centers

## Knockout Diagrams and Lug Data

### Indoor Main Breaker and Main Lug Enclosures



### Outdoor Main Breaker and Main Lug Enclosures



### Torque Table

- Use copper or aluminum 60/75°C wire.
- See circuit breaker markings for wire size and torque requirements.

#### For 100A, 125A Main Breaker and Main Lug Enclosures

Terminals	Wire	Torque
A, B, N, G	2/0-4 AWG	110 lb.-ins.
Neutral-	10-14 Cu/10-12 Al	20 lb.-ins.
Ground Bars	8 AWG	25 lb.-ins.
(Use Type GB Ground Bar Kit Accessory)	6-4 AWG	35 lb.-ins.
Ground Conductors Only	(2) or (3) 14 AWG	20 lb.-ins.
	(2) 12-10 AWG	20 lb.-ins.
LK1-2 Neutral Lug Kit	2/0-2 AWG	45 lb.-ins.
LK2 Neutral Lug Kit	2/0-4 AWG	135 lb.-ins.
Main Lug/Main Breaker to Bus Connection (1/4-20 nut)		45 lb.-ins.
Bonding Screw		45 lb.-ins.

#### For 150A, 200A, 225A Main Breaker and Main Lug Enclosures

Terminals	Wire	Torque
A, B, N	300 kcmil - 4 AWG	275 lb.-ins.
G	2/0-4 AWG	110 lb.-ins.
Neutral-	10-14 Cu/10-12 Al	20 lb.-ins.
Ground Bars	8 AWG	25 lb.-ins.
(Use Type GB Ground Bar Kit Accessory)	6-4 AWG	35 lb.-ins.
Ground Conductors Only	(2) or (3) 14 AWG	20 lb.-ins.
	(2) 12-10 AWG	20 lb.-ins.
LK1-2 Neutral Lug Kit	2/0-2 AWG	45 lb.-ins.
LK2 Neutral Lug Kit	2/0-4 AWG	135 lb.-ins.
LK3 Neutral Lug Kit	300 kcmil - 1 AWG	340 lb.-ins.
Main Lug/Main Breaker to Bus Connection (1/4-20 nut)		45 lb.-ins.
Bonding Screw		45 lb.-ins.