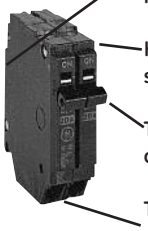
Special Purpose Circuit Breakers

—PowerMark Gold Main Circuit Breakers
—Arc Fault Circuit Interrupter
—Dual Function GFCI/AFCI Ground Fault & Combination Arc Fault Circuit Breaker
—Ground Fault with Self-Test Feature
—Ground Fault with Equipment Protection
—Switching Neutral
—HID Lighting Breaker
—High Magnetic Breaker
—Molded Case Switch
—Surge Arrester
—TQ Breaker



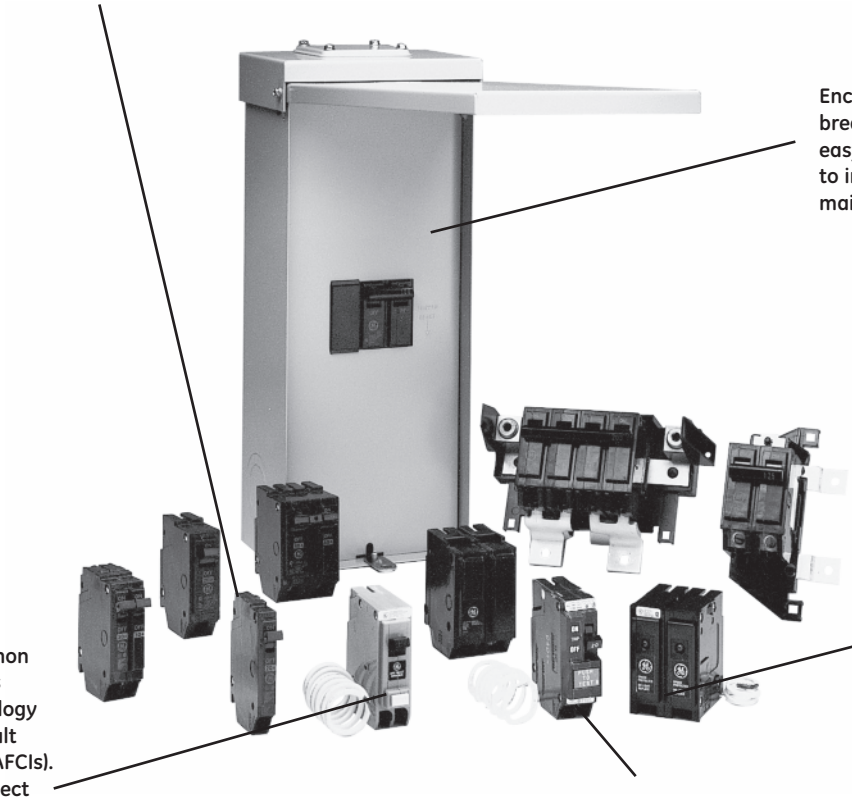
Copper stabs, tin-plated for corrosion resistance, make the connection reliable and permanent.

Heat-resistant thermoset cases and covers add stability and structural rigidity.

Trips are easy to spot because handles trip to the center position.

The dedicated calibration screw is cemented (not simply papered over) to prevent shifting. The result is stable calibration for optimum trip performance.

At 1/2", THQP breakers are half the width of standard breakers, permitting the use of smaller load centers that save money and space in both new construction and service upgrades. They feature the same high-performance design, and meet the same stringent standards as other Q-Line breakers. Our 1" THQL will remain the breaker of choice for many contractors. In applications where space and cost are not critical, they're an excellent choice. But when size and money are driving considerations, THQP breakers are the smart choice.



Enclosed circuit breakers make it easy and efficient to install exterior main breakers.

THQLSURGE surge arresters are easy to install and protect the whole house – computers, fax machines, televisions, stereos, VCRs and other sensitive electronic equipment – from destructive surges.

Maximum protection against all-too-common electrical fires comes from the new technology built into GE's arc fault circuit interrupters (AFCIs). With its ability to detect and interrupt arcing caused by damaged wire insulation or a frayed extension cord, the AFCI takes home and family protection to a new, higher level.

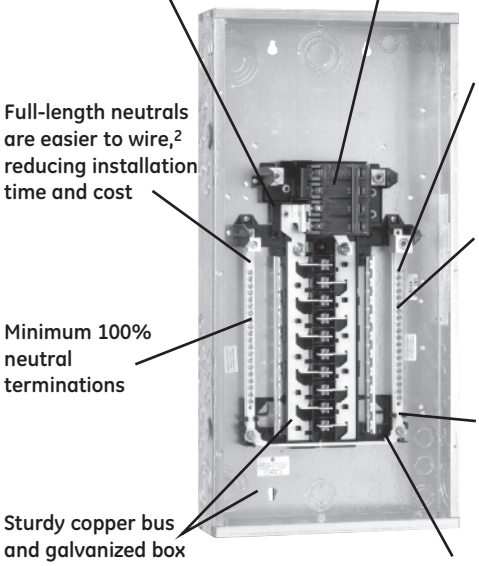
The NEC requires ground fault protection of receptacles outdoors and in garages, bathrooms and spa areas. These ground fault circuit interrupters eliminate the need for separate GFCI receptacles, protect against short circuits and overloads, and prevent shock by detecting very low levels of current leaks and immediately shutting off power to the circuit.

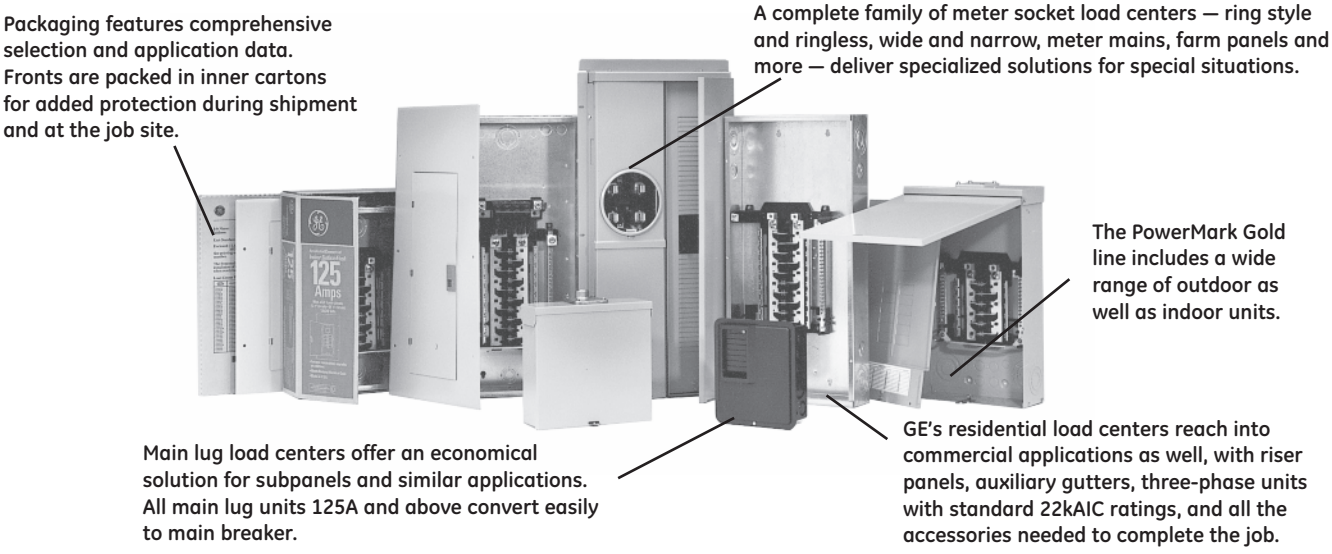
PowerMark Gold Load Centers

Highest Quality and Convenience

PowerMark Gold load centers lower your costs by making installation faster and easier, increasing application flexibility and reducing inventory requirements. At the same time, they deliver obvious and significant advances in design, function and quality.

—UL Listed (Panelboards No. 67)
—Suitable for Use as Service Entrance Equipment when installed in accordance with National Electrical Code
—60°C/75°C Conductor Rating
—Single phase, 40-225A, 2-42 circuits
—Main lug models field convertible to main breaker
—Main breaker 22kAIC standard - factory installed
—All load centers top or bottom feed
—Indoor and outdoor rated enclosures
—Indoor fronts combination surface/flush
—Copper bus with tin plating standard[1]
—Split neutrals extend the full length of the interior for ease of wiring
—Entire main lug line converts easily to main breaker
—Combination surface/flush front with spring-reinforced pan
—Combination slotted/Robertson square-drive screws on neutral,[2] ground, front and breaker lugs
—Front packed in inner carton for added protection
—Field installable feed-through lugs up to 200A
—Straight-through main wiring
—Main breaker is clearly marked and circuit numbers are stamped on front
—Isolated ground bar is available
—Compact box maintains optimum wire-bending space





Accessories and Options

—Door lock and handle
—Equipment ground kits
—Sub-feed and feed-thru lugs
—Front filler plates
—Handle lock and ties
—Hardware kits
—Main breaker retainers
—Neutral kits
—Universal raintight hubs

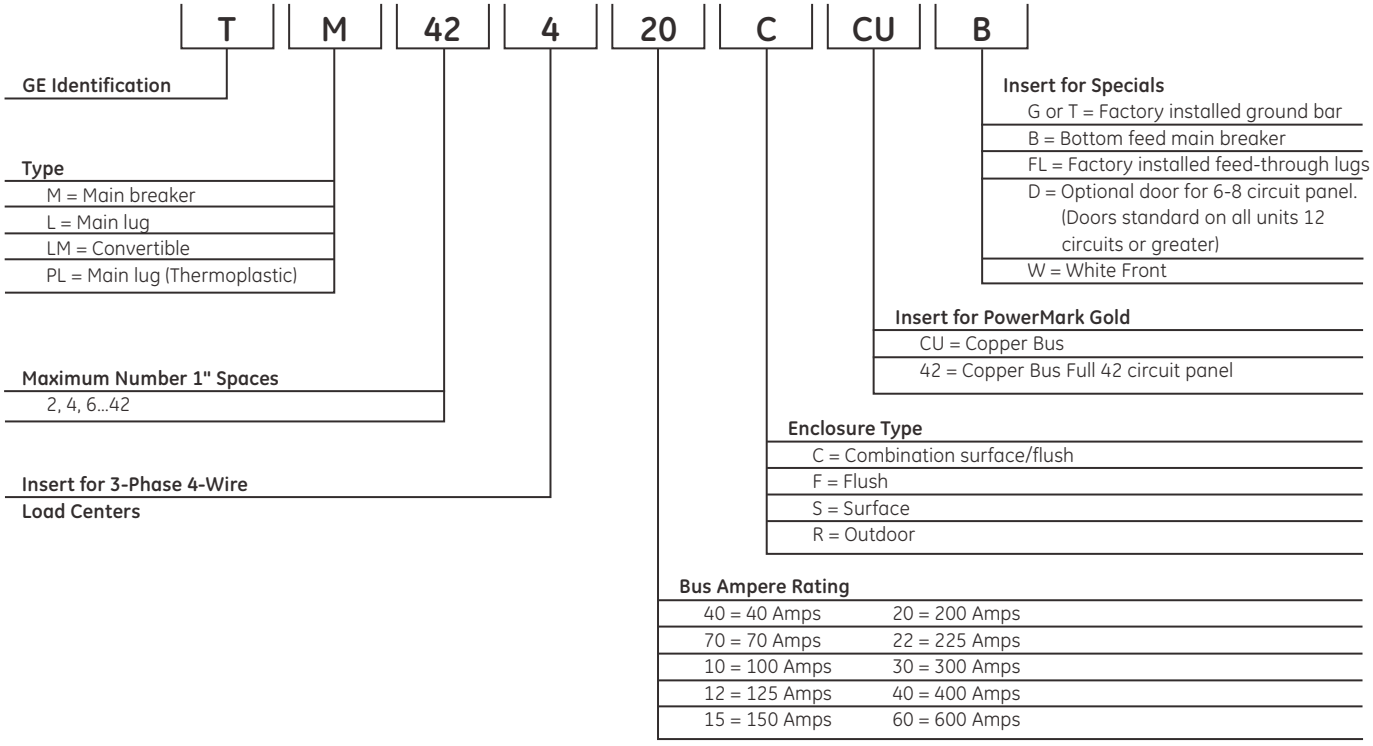
Safety accessories – convenient and easy to install

—THQLSURGE whole house surge protector
—Arc fault circuit interrupter breaker, 1- or 2-pole
—Ground fault circuit interrupter breaker, 5mA and 30mA
—Generator transfer panel – 30A or 60A, indoor or outdoor
—GE AC disconnects

[1]Three-phase PowerMark Plus load centers have aluminum bus with copper breaker mounting stabs.
[2]16 circuit and above.

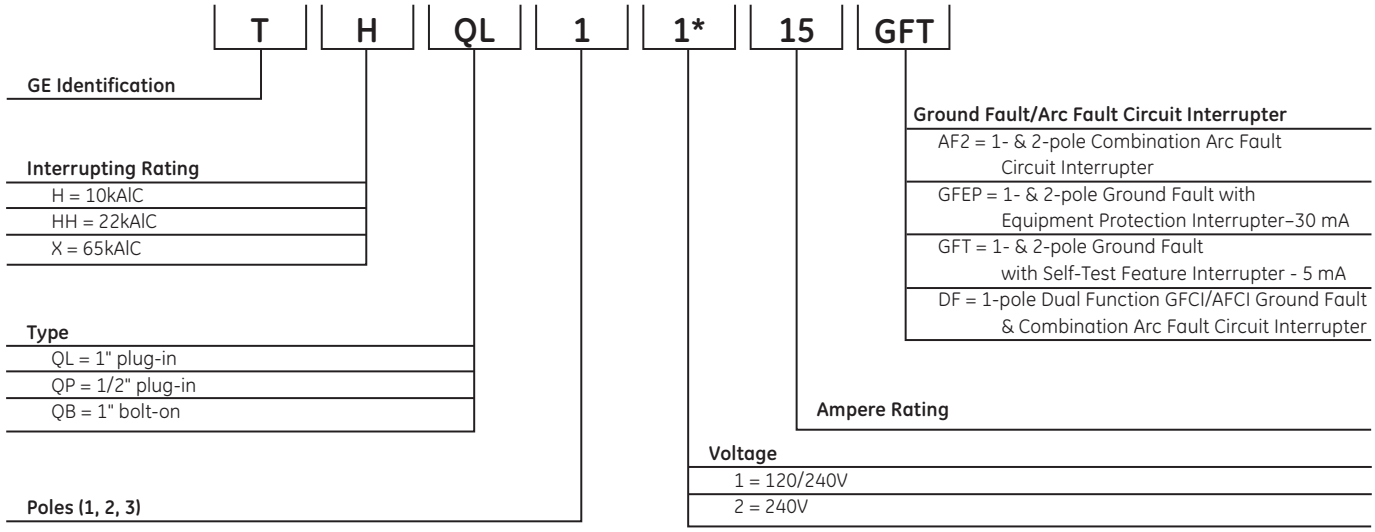
Product Number Guide for Load Centers

(Product number for illustrative purposes only)



Product Number Guide for Q-Line Plug-in Circuit Breakers

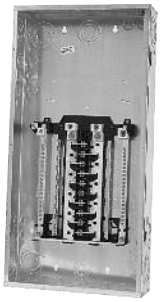
(Product number for illustrative purposes only)



*Omit character for THQP breakers, which are all 120/240V.

Product Features

—UL Listed (Panelboards No. 67)
—60°/75°C Conductor Rating
—Suitable for Use as Service Entrance Equipment when Installed in Accordance with the National Electrical Code
—22kAIC RMS symmetrical, Except Where Noted
—6-42 circuit devices UL Listed for bottom mounted lugs by installing complete unit (box, interior and front) upside down.
—For a listing of CSA Listed load centers, visit geindustrial.com.



TLM2020CCU

TPL412R

Main Lugs Factory Installed (TLM units convertible to main breaker), Indoor (NEMA 1) Enclosure

Main Ampere Rating	1 Pole, 1" Spaces	2 Pole, 1" Spaces	1 Pole, 1/2" Spaces	2 Pole, 1/2" Spaces	Total 1-pole Spaces	Front Type	Feed Type[1]	Box Number	Main Wire Size (AWG/kcmil) Cu-Al	Equipment Ground Kit	Product Number
40	2	1	4	1	4	Surface	Top Bottom	1A	14-4	TGK4 (order separately)	TL240SCU[1,8]
70	2	1	4	1	4	Surface	Top Bottom	1A	6-3	TGK4 (order separately)	TL270SCU[1,8]
125	4	2	8	3	8	Combination Flush/Surface	Top Bottom	2A	1-2/0	TGL1 (order separately)	TL412C[1,2,8]
125	4	2	8	3	8	Combination Flush/Surface	Top Bottom	2A	1-2/0	TGL1 installed	TL412CT[1,2,3,8]
125	4	2	8	3	8	Thermoplastic	Top Bottom	2	1-2/0	TGL1 (order separately)	TPL412C[1,2,3,8]
125	4	2	8	3	8	Thermoplastic	Top Bottom	2	1-2/0	TGL1 installed	TPL412CT[1,2,3,8]
125	6	3	12	4	12	Flush	Top Bottom	3A	6-1	TGL2 (order separately)	TLM612FCU[4,8]
125	6	3	12	4	12	Flush	Top Bottom	3A	6-1	TGL2 (order separately)	TLM612FCUD[4,8]
125	6	3	12	4	12	Flush	Top Bottom	3A	6-1	TGL2 installed	TLM612FCUDG[4,8]
125	6	3	12	4	12	Surface	Top Bottom	3A	6-1	TGL2 (order separately)	TLM612SCU[4,8]
125	6	3	12	4	12	Surface	Top Bottom	3A	6-1	TGL2 (order separately)	TLM612SCUD[4,8]
125	6	3	12	4	12	Surface	Top Bottom	3A	6-1	TGL2 installed	TLM612SCUDG[4,8]
125	8	4	16	8	16	Flush	Top Bottom	3A	6-1	TGL2 (order separately)	TLM812FCU[4,8]
125	8	4	16	8	16	Flush	Top Bottom	3A	6-1	TGL2 (order separately)	TLM812FCUD[4,8]
125	8	4	16	8	16	Flush	Top Bottom	3A	6-1	TGL2 (order separately)	TLM812FCUDG[4,8]
125	8	4	16	8	16	Surface	Top Bottom	3A	6-1	TGL2 (order separately)	TLM812SCU[4,8]
125	8	4	16	8	16	Surface	Top Bottom	3A	6-1	TGL2 (order separately)	TLM812SCUD[4,8]
125	8	4	16	8	16	Surface	Top Bottom	3A	6-1	TGL2 installed	TLM812SCUDG[4,8]
125	14	6	20	8	24	Combination Flush/Surface	Top Bottom	18	6-2/0	Included[10]	TLM1212CCU[7,8]
125	14	6	20	8	24	White Combo Flush/Surface	Top Bottom	18	6-2/0	Included[10]	TLM1212CCUW[7,8,9]

This table continued on next page

Main Lugs Factory Installed (TLM units convertible to main breaker), Outdoor (NEMA 3R) Enclosure[1]

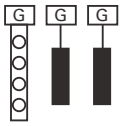
Main Ampere Rating	1 Pole, 1" Spaces	2 Pole, 1" Spaces	1 Pole, 1/2" Spaces	2 Pole, 1/2" Spaces	Total 1-pole Spaces	Front Type	Feed[1] Type	Box Number	Main Wire Size (AWG/kcmil) Cu-Al	Equipment Ground Kit	Product Number
40	2	1	4	1	4		Top	R1A	14-4	TGK4 (order separately)	TL240RCU
70	2	1	4	1	4		Top	R1A	6-3	TGK4 (order separately)	TL270RCU
100	5	0	0	0	5	Flush	Top	R41	6-3	TGL1 installed	TL510RT[2,8]
125	4	2	8	3	8		Top	R1A	1-2/0	TGL1 (order separately)	TL412R1[2]
125	4	2	8	3	8		Top	R1A	1-2/0	TGL1 installed	TL412RT1[2]
125	4	2	8	3	8		Top	R41	1-2/0	TGL1 (order separately)	TL412R2[2]
125	4	2	8	3	8	Thermoplastic Front	Top	R1	1-2/0	TGL1 (order separately)	TPL412R[2,3]
125	4	2	8	3	8	Thermoplastic Front	Top	R1	1-2/0	TGL1 installed	TPL412RT[2,3]
125	4	3	12	4	12		Top	R2A	6-1	TGK12 (order separately)	TLM612RCU[4]
125	8	4	16	8	16		Top	R2A	6-1	TGK12 (order separately)	TLM812RCU[4]
125	8	4	16	8	16		Top	R3A	6-1	TGK12 (order separately)	TLM812RCU2[5]
125	14	6	20	8	24		Top	R3A	6-2/0	Included	TLM1212RCU[7,9]
125	24	12	0	0	24		Top Bottom	R4A	6-2/0	TGK24 (order separately) TGK32 (order separately)	TLM2412RCU[5]
150	24	12	12	4	30		Top Bottom	R6A	1-3/0 (Cu), 2/0-3/0 (Al)	TGK24 (order separately) TGK32 (order separately)	TLM2415RCU[6]
200	12	6	24	10	24		Top	R5A	6-250	TGK24 (order separately)	TLM1220RCU[6]
200	16	8	32	14	32		Top	R5A	6-250	TGK32 (order separately)	TLM1620RCU[6]
200	20	10	40	18	40		Top	R6A	6-250	TGK24 (order separately) TGK42 (order separately)	TLM2020RCU[6]
200	24	12	36	18	42		Top Bottom	R39	1-250 (Cu), 2/0-250 (Al)	TGK24 (order separately)	TLM2420R42
200	32	16	16	6	40		Top Bottom	R7A	1-250 (Cu), 2/0-250 (Al)	TGK32 (order separately)	TLM3220RCU[6]
200	40	20	0	0	40		Top Bottom	R8A	6-250	TGK42 (order separately)	TLM4020RCU[6]
225	42	20	0	0	42		Top Bottom	R8A	1-300 (Cu), 2/0-300 (Al)	TGK42 (order separately)	TLM4222RCU[6]

[1]40-225 amp single-phase devices have removable closing caps. Larger ampere devices require field-cut openings. Order hubs separately. See page 1-27.
[2]10 kAIC.
[3]125 amp maximum branch capacity.
[4]For main breaker, order THQLRK2 retainer kit plus 2-pole circuit breaker. See page 1-28, 100 amp maximum due to wire bending requirements.
[5]For main breaker, order TQMH000. See page 1-24. Also order 2-pole THQL or THHQL circuit breaker. See page 1-5.
[6]For main breaker, order THQMVXXXD circuit breaker from page 1-6.
[7]For main breaker applications, use reverse feed THQL or THHQL circuit breaker (see page 1-5) and THQLRK3 breaker retainer (see page 1-28).
[8]Main and branch breakers are limited to 70 amps.
[9]Load center includes a factory installed ground bar and add-a-lug. See wiring diagram on page 1-30. A separate TGL2 can be added in the unlikey event that another ground bar is required.

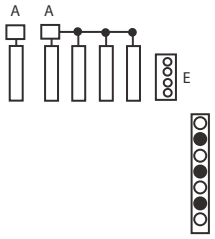
Note: See page 11-4, AL Series Lighting Panelboards as replacements for 300-600A load centers.

Breaker Symbol	Breaker Fill	
	1" THQL	1/2" THQP
	1	—
	1	2

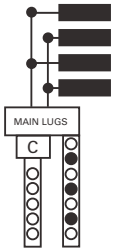
Terminal Symbol	Wire Range (AWG/kcmil)	
	Cu	Al
o	14-8	12-8
•	14-4	12-4
A	6-2	6-2
B	14-1/0	12-1/0
C	6-2/0	6-2/0
D	1-300	2/0-300
E	1-300	1-300
F	6-1	6-1
G	6-3	6-3



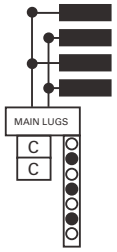
TL240SCU, RCU
TL270SCU, RCU



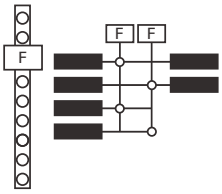
TL510RT



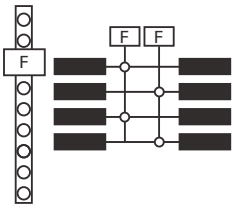
TPL412C, TL412C, TPL412R, TL412R1,
TL412R2, TL412R250GF, TL412R260GF



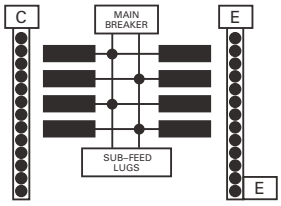
TPL412CT, TL412CT
TPL412RT, TL412RT1



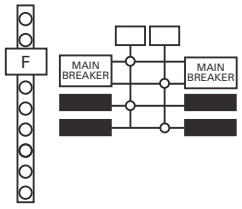
TLM612FCU, SCU
FCUD, SCUD, RCU



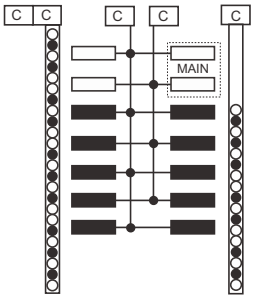
TLM812FCU, SCU,
FCUD, SCUD, RCU



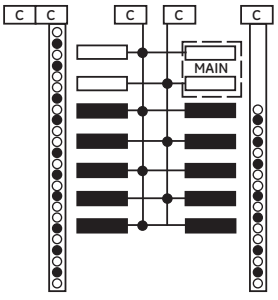
TM815RCUFL
TM820RCUFL



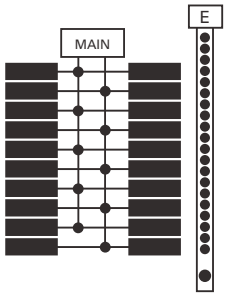
TM860FCUGEN, TLM830FCUGEN,
TM860SCUGEN, TLM830SCUGEN,
TM860RCUGEN, TLM830RCUGEN



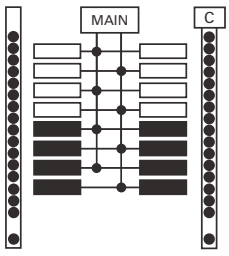
TM1210CCU, TM1212CCU, TLM1212CCU



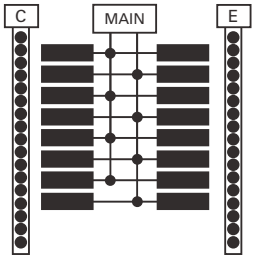
TM1210RCU, TM1212RCU, TLM1212RCU



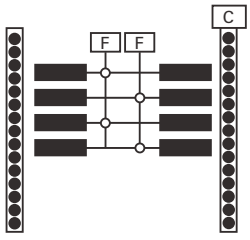
TLM2012CCURP



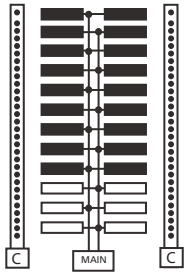
TLM1612CCU, TM1612CCU, TM1612RCU



TM1615CCU, TM1615RCU, TM1620CCU,
TLM1620CCU, TLM1620RCU



TLM812RCU2



TM2420R42B