



Switchboard Sub-panels

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Notes: Sub-panels are of black slate, oil finished and are furnished in two thickness of Slate, either 1½ inches or 1 inch, including mounting brackets for mounting on A. R. A. Standard Pipe Frame.

Where A. C.-D. C. Motor-generator Sets are started from the D. C. end, Storage Battery must have had an initial charge before starting panels D and E can be used. Edison Type Battery is always sent out charged. Lead Type Storage Battery may be sent out charged, in which case plates are packed wet.

Drawing references are shown for convenience in checking shipping lists and invoices.

Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
A	Sub-panel, Slate 1½ inches in thickness, size 24" x 12", Complete with 125 volt, 2 P. S. T. Switches, Fuses and Mounting Brackets, arranged to control from one to five lighting circuits. Specify number of lighting circuits and current of each. For detail of switches see Plate F0505, Fig. 2, and for detail of Fuses and Fuse Clips see Plate F0509 Figs. F and G.	41196-1
A1	as above, except thickness of Slate is 1 inch.	41196-1
B	Sub-panel, Slate 1½ inches in thickness, size 24" x 12", Complete with 125 volt Switches, Fuses and Mounting Brackets, arranged for controlling two, three or four lighting circuits from either of two power sources. Specify number of lighting circuits and current of each. For detail of switches see Plate F0505, Figs. 2 and 6. For detail of Fuses and Fuse Clips see Plate F0509, Figs. F and G.	
B1	as above, except thickness of Slate is 1 inch.	41396-1
C	Sub-panel, size 12" x 12", Complete with 125 volt Switches, Fuses and Bolts, Nuts and Washers for mounting to Angle Iron Frame, arranged for controlling two or three lighting circuits from either of two power sources. Specify number of lighting circuits and current of each. For detail of switches see Plate F0505, Figs. 2 and 6. For detail of Fuses and Fuse Clips see Plate F0509, Figs. F and G.	41497

(Continued on following page)

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
D	Sub-panel, Slate 1½ inches in thickness, size 24" x 18", Complete with a 4 Pole Starting Switch, Fuses, Resistance Units and Mounting Brackets. Arranged for starting a Single Phase A. C. - D. C. Motor-generator Set from the D. C. end. Starting Switches with their fuses and resistance units are furnished in accordance with the requirements of individual Motor-generator Sets. The Switches are rated for 250 volts and are furnished in two sizes, for 60 and 100 Amperes. Knife Blade type Fuses and Fuse Clips shown on Plate F0509 Figs. H and J are furnished for each pole of starting switch which carries a current to exceed 60 amperes.	
D1	as above, except that Slate Panel is 24" x 12" in size which limits panel to the use of a 60 ampere Starting Switch. This sub-panel is used where two sub-panels are required on the same switchboard.	
D2	same as Fig. D, except thickness of Slate is 1 inch.	44228-1
D3	same as Fig. D1, except thickness of Slate is 1 inch.	44228-2
E	Sub-panel, Slate 1½ inches in thickness, size 24" x 18", Complete with a 5 Pole Starting Switch, Fuses, Resistance Units and Mounting Brackets. Arranged for starting a Three Phase A. C.-D. C. Motor-generator Set from the D. C. end. 5 Pole Starting Switches with their Fuses and Resistance Units have same ratings as those shown under Fig. D.	
E1	as above, except that Slate Panel is 24" x 12" in size which limits panel to the use of a 60 Ampere Starting Switch. This sub-panel is used where two sub-panels are required on the same switchboard.	
E2	same as Fig. E, except thickness of Slate is 1 inch.	44228
E3	same as Fig. E1, except thickness of Slate is 1 inch.	44228-3

(Continued on following page)

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GENERAL RAILWAY SIGNAL COMPANY

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
F	Sub-panel, Slate 1½ inches in thickness, size 24" x 12", Complete with Starting Box, one 2 P. S. T. Switch, Fuses and Mounting Brackets. Arranged for starting Motor-generator Set driven by D. C. power. Rating of Starting Box, Switch and Fuses to meet requirements of the individual Motor-generator Set. For detail of Switch see Plate F0505, Fig. 2. For detail of Fuses and Fuse Clips see Plate F0509, Figs. F and G.....	
F1	as above, except thickness of Slate is 1 inch.....	
G	Sub-panel, Slate 1½ inches in thickness, size 24" x 12", Complete with a 4 Pole Double Throw Switch, Fuses and Mounting Brackets. Arranged for starting a Motor-generator Set driven by a Three Phase A. C. Motor, the Motor-generator Set being started from the A. C. end..... Motors with a rating of more than 5 Horse Power require compensators for starting. Compensators are usually mounted independent of Switchboards..... Rating of Switches and Fuses as required. For detail of Switch see Plate F0505, Fig. 8 and for detail of Fuses and Fuse Clips see Plate F0509, Figs. F and G.....	
G1	as above, except thickness of Slate is 1 inch.....	
1	Slate Panel, size 24" x 12" x 1½ inches in thickness, for mounting on A. R. A. Pipe Frame. Drilled as specified or as required.	
1a	as above, except 1 inch in thickness.....	
2	Slate Panel, size 12" x 12" x 1 inch in thickness, for mounting on Angle Iron Frame. Drilled as specified or as required....	
3	Slate Panel, size 24" x 18" x 1½ inches in thickness for use on A. R. A. Pipe Frame. Drilled as specified or as required....	
3a	as above, except 1 inch in thickness.....	
4	Cap Screw, black oxidized with Washers and Nut for mounting 1 inch Slate to Angle Iron Frame.....	

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Fig. No.	Name	Drawing Reference
Order by plate, figure number and name		
5	Mounting Bracket Complete as shown, for mounting 1½ inch Slate Panel on A. R. A. Pipe Frame. For detail see Plate F0501, Fig. B.	50755
5a	as above, except for mounting 1 inch Slate Panel on A. R. A. Pipe Frame.	50755
6	Knife Switch, 2 P. S. T. 125 Volts, 30 Amperes. For detail see Plate F0505, Fig. 2.	25504
7	Knife Switch, 2 P. D. T. 125 Volts, 30 Amperes. For detail see Plate F0505, Fig. 6.	25506
8	Fuse Clip, ferrule type, back connected, for Fuse Fig. 9. Specify thickness of Slate. For detail see Plate F0509, Fig. G.	33451
9	Fuse, cartridge, ferrule type. Rating as specified or as required. For detail see Plate F0509, Fig. F.	
10	Bracket Complete with Screw for mounting Resistance Unit Fig. 11. Specify thickness of Slate.	35886
11	Resistance Unit Complete, resistance as specified or as required.	
12	Starting Switch, 4 Pole, Complete with Fuses and Fuse Clips. Rating as specified or as required.	
13	Starting Switch, 5 Pole, Complete with Fuses and Fuse Clips. Rating as specified or as required.	
14	Starting Box Complete with mounting Screws. Rating as specified or as required. Specify thickness of Slate.	
15	Switch, 4 Pole, double throw, Complete as shown. Rating as specified or as required. For detail see Plate F0505, Fig. 8.	