

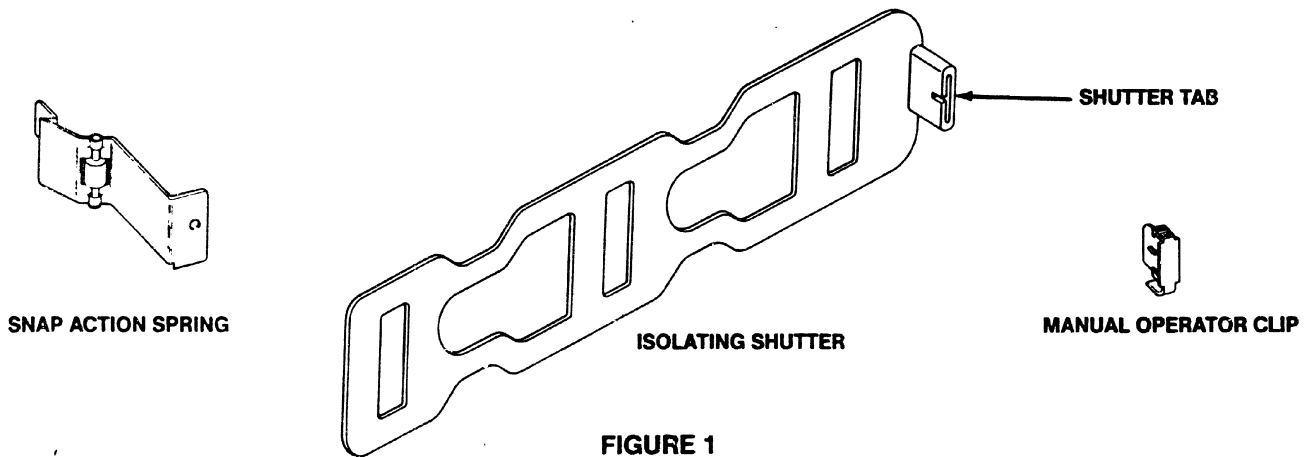
BULLETIN 2100 MOTOR CONTROL CENTER ISOLATING SHUTTER FIELD INSTALLATION INSTRUCTIONS

WARNING: BEFORE BEGINNING INSTALLATION OF THE ISOLATING SHUTTER, DE-ENERGIZE AND LOCK OUT THE MAIN HORIZONTAL BUS SUPPLY TO THE MOTOR CONTROL CENTER.

The isolating shutter option is available as a manual or an automatic device on structures beginning with series letter G. If the manual device is specified, a Motor Control Center Section will contain a total of twelve isolating shutters and twelve manual operator clips. If the automatic device is specified, a Motor Control Center Section will contain twelve isolating shutters and twelve automatic snap action operators.

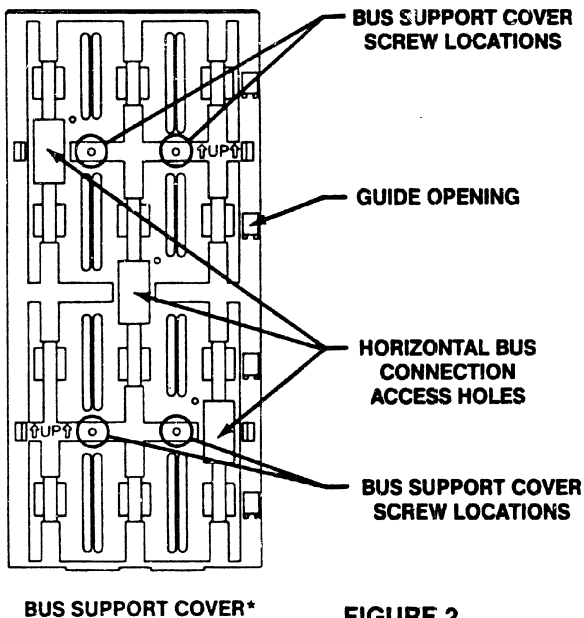
The automatic isolating shutters are located in line with the respective unit's stab assembly and are operated by a snap action spring which is activated by direct contact to the respective unit's stab assembly.

Figure 1 illustrates the parts that are required for manual isolating shutters and the automatic isolating shutters.



Steps for installation of the isolating shutter:

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1. Remove all unit doors, plug-in units and unit support pans from section. (For removal of units refer to Instructions Publication 2100.5.0, UNIT REMOVAL AND INSTALLATION.)
2. Carefully remove and save the bus support cover screws and bus support covers associated with the starter plug-in units removed in Step 1. A Torx T-30 driver is required. Refer to Figure 2.

***NOTE:** CENTER PIECE SHOWN, TOP AND BOTTOM PIECE DO NOT HAVE HORIZONTAL BUS CONNECTION ACCESS HOLES.

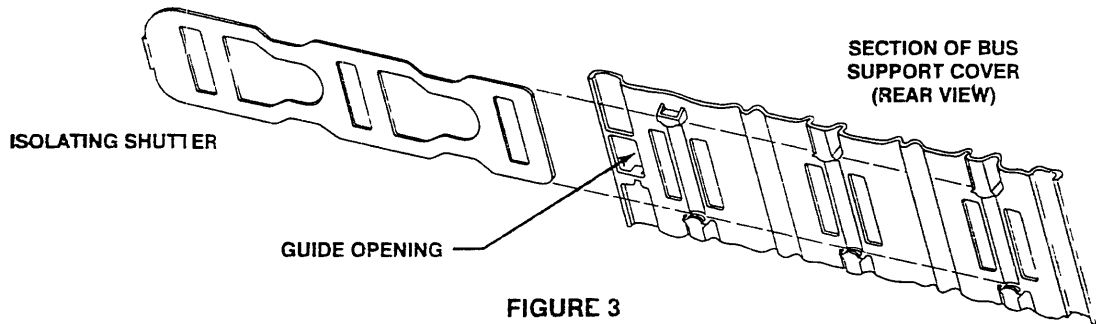


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- 3 Noting that the UP markings on the front of the bus support covers refer to Figure 2 are up turn the bus support covers over so that the reverse side is visible
- 4 Install shutters with tab down over unit stab openings by sliding from left into slots provided on bus support cover Slide in and deflect the shutter so that the shutter tab fits through the guide opening on the left side of the reversed bus support cover refer to Figures 1 and 3



- 5 Turn the bus support covers over noting the UP marking The shutter tab should be extending out through the guide opening on the bus support cover Refer to Figure 2
- 6 Replace the bus support covers to the same locations which they were removed from noting the "UP" markings Note that the center cover has the vertical to horizontal bus connection access holes A Torx T-30 driver is required to tighten the bus support cover screws (torque of 45 ± 5 in lbs)
- 7 For manual only shutter operators proceed to Step 8
- 7.1 For automatic shutter operators proceed to Step 9
- 8 To install the manual operator clip (it is keyed to fit into the shutter tab) place the clip with the squeeze tab down into the slot on the shutter tab at the right side of the bus support cover Push in until the clip snaps into place Refer to Figure 4A Repeat this step for all twelve clips
- 9 To install the snap action spring insert the narrow tab of the spring into the slot on the shutter tab at the right side of the bus support cover Insert the wide tab with hole into the slot in the right hand unit support and secure with one #10-32 taptite screw Hold snap action spring straight while tightening Torque to 32 ± 3 in lbs Refer to Figure 4B Repeat this step for all twelve springs
- 10 Replace the unit support pans starter plug-in units and unit doors removed in Step 1 (For installation of units refer to Instructions Publication 21-50 UNIT REMOVAL AND INSTALLATION)

NOTE (For energizing Motor Control Center refer to Instructions Publication 2100-50 FINAL CHECK LIST BEFORE ENERGIZING and ENERGIZING EQUIPMENT)

