

## Manual Synchronization Mode

### Dead Bus Close

1. For manual synchronization, the PCS must be in the MANUAL position. The following sequence of operations assumes the switch is in this position. Changing the switch position will interrupt the manual mode of operation and prevent the circuit breaker from being manually closed.
2. To initiate a manual dead bus closure, the ECS is placed in the RUN position.
3. As the generator set reaches approximately 50% speed and voltage, the Voltage Frequency Relay (VFR) will energize. This will energize the VBR.
4. With the VBR relay energized, the operator presses the circuit breaker close pushbutton (CBCPB), activating the CBPR.
5. A CBPR contact will energize the CBCR.
6. A CBCR contact will energize the circuit breaker close coil, closing the circuit breaker.

### Live Bus Close

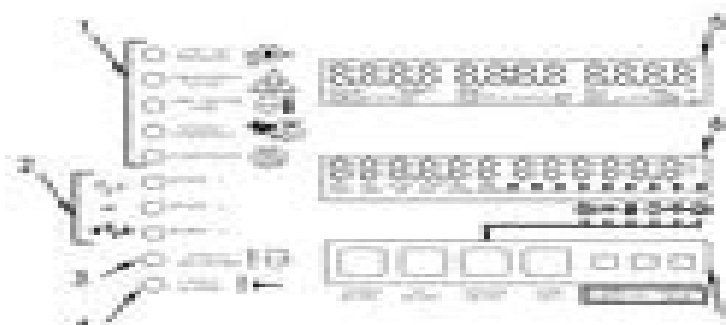
1. For manual synchronization, the PCS must be in the MANUAL position. The following sequence of operations assumes the switch is in this position. Changing the switch position will interrupt the manual mode of operation and prevent the circuit breaker from being manually closed.
2. To initiate a manual dead bus closure, the ECS is placed in the RUN position.
3. When a source is present on the load bus, the dead bus relay is energized, indicating the bus is live. The bus transformer fuse (BTB+) also detects voltage present on the bus.
4. The GSC+P checks if there are phase sequence alarms, inappropriate voltage alarms, or any other alarm present.
  - a. Yes – The GSC+P will issue the appropriate alarm. Breaker closure is prevented until the fault is corrected.
  - b. No – The GSC+P will verify conditions for synchronization.
5. Using the GSC+P synchroscope, the generator set frequency is manually adjusted to bring the generator set voltage in phase with the bus voltage. Refer to the SYNCHROSCOPE section for more details.

6. When the output frequency is in phase with the bus frequency and within the phase tolerance limit (P505), the GSC+P will issue a breaker close command.
7. To close the circuit breaker, the operator presses the circuit breaker close pushbutton (CBCPB). 7. With the GSC+P issuing a breaker close command and the CBCPB pressed, the CBPR is activated. A CBPR contact will energize the CBCR.
8. A CBCR contact will energize the circuit breaker close coil, closing the circuit breaker.

continued

## Service Mode

EMCS Codec: 4400



continued

Illustration 26  
GSC+P Display Area With Service Mode Descriptions Of Keypad

- (1) Dedicated shutdown indicators
- (2) System fault indicators (or synchronizing lights on GSC+P)
- (3) Fault shutdown indicator
- (4) Fault alarm indicator
- (5) Upper display
- (6) Lower display
- (7) Keypad

Service Mode is used for the following purposes:

- Assist with troubleshooting of diagnostic faults.
- Satisfy special applications.
- Satisfy customer needs.
- Verify the functions of the generator set.
- Calibrate or adjust the functions of the generator set.

# Emcp Ii Service Manual

**R Bogdan**



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