

1 05 21-16



Service Information Bulletin

| SUBJECT | DATE |
|-----------------------|----------|
| SPN 705 (CPC) (GHG17) | May 2016 |

Additions, Revisions, or Updates

| Publication Number / Title | Platform | Section Title | Change |
|----------------------------|----------------------------|--|---|
| DDC-SVC-MAN-0193 | GHG17 DD Medium Duty | SPN 705 FMI 3 - GHG17 | New DD5 and DD8 diagnostic procedures. |
| | | SPN 705 FMI 4 - GHG17 | |
| | | SPN 705 FMI 5 - GHG17 | |
| DDC-SVC-MAN-0191 | GHG17 DD Platform | SPN 705 FMI 3 - GHG17 | Updated GHG17 HD diagnostic procedures. |
| | | SPN 705 FMI 4 - GHG17 | |
| | | SPN 705 FMI 5 - GHG17 | |
| DDC-SVC-MAN-0084 | GHG14 DD Platform | SPN 705 FMI 3 - EPA07 - EPA10 - GHG14 | Updated HD diagnostic procedures. |
| | | SPN 705 FMI 4 - EPA07 - EPA10 - GHG14 | |
| | | SPN 705 FMI 5 - GHG14 | |

DiagnosticLink users: Please update the troubleshooting guides in DiagnosticLink with this newest version. To update the tool troubleshooting guide, open DiagnosticLink and from the Help – Troubleshooting Guides menu, select the appropriate troubleshooting manual, then click Update.



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2 SPN 705/FMI 3 - GHG17

Digital Output 1 13 Circuit Failed High

Table 1.

| SPN 705/FMI 3 | |
|-----------------------------|----------------------------------|
| Description | CPC Output 1 13 Short to Voltage |
| Monitored Parameter | CPC Output 1/13 |
| Typical Enabling Conditions | Always Enabled |
| Monitor Sequence | None |
| Execution Frequency | Always Enabled |
| Typical Duration | Two Seconds |
| Dash Lamps | CEL |
| Engine Reaction | None |
| Verification | Engine On with Output Activation |

Check as follows:



WARNING: ENGINE EXHAUST

To avoid injury from inhaling engine exhaust, always operate the engine in a well-ventilated area. Engine exhaust is toxic.

1. Has the Common Powertrain Controller (CPC) recently been changed or reprogrammed?
 - a. Yes; verify that the correct CPC parameter list has been installed. If the correct calibration and correct parameter list have been installed, then Go to step 2.
 - b. No; Go to step 2.
2. Connect to DiagnosticLink[®].

| Parameter | Value | Units | Minimum |
|------------------------|-----------------------------|-------|---------|
| PGR035 Digital Outputs | | | |
| 1 04 DO Selection | ground, idle validatio... | | |
| 1 05 DO Selection | DPF Lamp | | |
| 1 13 DO Selection | DPF Lamp | | |
| 2 10 DO Selection | 0 disabled | | |
| 3 02 DO Selection | 1 MIL lamp | | |
| 3 07 DO Selection | 2 DEF Low Lamp | | |
| 3 08 DO Selection | 3 coolant temperature lamp | | |
| 3 09 DO Selection | disabled | | |
| 3 10 DO Selection | WIF-Lamp | | |
| 3 12 DO Selection | DEF Low Lamp | | |
| 3 16 DO Selection | Fuel Filter Restriction ... | | |
| 3 17 DO Selection | stop engine lamp red | | |
| 4 01 DO Selection | disabled | | |
| 4 02 DO Selection | disabled | | |
| 4 06 DO Selection | grid heater lamp | | |
| 4 07 DO Selection | High Exhaust Temper... | | |
| 4 09 DO Selection | disabled | | |
| 4 10 DO Selection | disabled | | |

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3. Verify parameters - go to the parameters work window.
4. Verify that the parameter set to 1 13 DO Selection is set to the specific component to which this is configured. Are the parameters configured correctly?
 - a. Yes; repair the short to power between pin 13 of the CPC connector #1 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.
 - b. No; configure the parameters correctly.

3 SPN 705/FMI 4 - GHG17

Digital Output 1 13 Circuit Failed Low

Table 2.

| SPN 705/FMI 4 | |
|-----------------------------|----------------------------------|
| Description | CPC Output 1 13 Short to Ground |
| Monitored Parameter | CPC Output 1/13 |
| Typical Enabling Conditions | Always Enabled |
| Monitor Sequence | None |
| Execution Frequency | Always Enabled |
| Typical Duration | Two Seconds |
| Dash Lamps | CEL |
| Engine Reaction | None |
| Verification | Engine On with Output Activation |

Check as follows:



WARNING: ENGINE EXHAUST

To avoid injury from inhaling engine exhaust, always operate the engine in a well-ventilated area. Engine exhaust is toxic.

1. Has the Common Powertrain Controller (CPC) recently been changed or reprogrammed?
 - a. Yes; verify that the correct CPC parameter list has been installed. If the correct calibration and correct parameter list have been installed, then Go to step 2.
 - b. No; Go to step 2.
2. Connect to DiagnosticLink[®].

| Parameter | Value | Units | Minimum |
|------------------------|-----------------------------|-------|---------|
| PGR035 Digital Outputs | | | |
| 1 04 DO Selection | ground, idle validatio... | | |
| 1 05 DO Selection | DPF Lamp | | |
| 1 13 DO Selection | DPF Lamp | | |
| 2 10 DO Selection | 0 disabled | | |
| 3 02 DO Selection | 1 MIL lamp | | |
| 3 07 DO Selection | 2 DEF Low Lamp | | |
| 3 08 DO Selection | 3 coolant temperature lamp | | |
| 3 09 DO Selection | disabled | | |
| 3 10 DO Selection | WIF-Lamp | | |
| 3 12 DO Selection | DEF Low Lamp | | |
| 3 16 DO Selection | Fuel Filter Restriction ... | | |
| 3 17 DO Selection | stop engine lamp red | | |
| 4 01 DO Selection | disabled | | |
| 4 02 DO Selection | disabled | | |
| 4 06 DO Selection | grid heater lamp | | |
| 4 07 DO Selection | High Exhaust Temper... | | |
| 4 09 DO Selection | disabled | | |
| 4 10 DO Selection | disabled | | |

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3. Verify parameters - go to the parameters work window.
4. Verify that the parameter set to 1 13 DO Selection is set to the specific component to which this is configured. Are the parameters configured correctly?
 - a. Yes; repair the short to ground between pin 13 of the CPC connector #1 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.
 - b. No; configure the parameters correctly.

4 SPN 705/FMI 5 - GHG17

Digital Output 1 13 Circuit Open

Table 3.

| SPN 705/FMI 5 | |
|-----------------------------|----------------------------------|
| Description | CPC Output 1 13 Open Circuit |
| Monitored Parameter | CPC Output 1/13 |
| Typical Enabling Conditions | Always Enabled |
| Monitor Sequence | None |
| Execution Frequency | Always Enabled |
| Typical Duration | Two Seconds |
| Dash Lamps | CEL |
| Engine Reaction | None |
| Verification | Engine On with Output Activation |


Check as follows:



WARNING: ENGINE EXHAUST

To avoid injury from inhaling engine exhaust, always operate the engine in a well-ventilated area. Engine exhaust is toxic.

1. Has the Common Powertrain Controller (CPC) recently been changed or reprogrammed?
 - a. Yes; verify that the correct CPC parameter list has been installed. If the correct calibration and correct parameter list have been installed, then Go to step 2.
 - b. No; Go to step 2.
2. Connect to DiagnosticLink[®].

| Parameter | Value | Units | Minimum |
|--|---|-------|---------|
|  PGR035 Digital Outputs | | | |
| 1 04 DO Selection | ground, idle validatio... | | |
| 1 05 DO Selection | DPF Lamp | | |
| 1 13 DO Selection | <div style="border: 1px solid black; background-color: #e0e0e0; padding: 2px;"> ▼ </div> | | |
| 2 10 DO Selection | 0 disabled | | |
| 3 02 DO Selection | 1 MIL lamp | | |
| 3 07 DO Selection | 2 DEF Low Lamp | | |
| 3 08 DO Selection | 3 coolant temperature lamp | | |
| 3 09 DO Selection | disabled | | |
| 3 10 DO Selection | WIF-Lamp | | |
| 3 12 DO Selection | DEF Low Lamp | | |
| 3 16 DO Selection | Fuel Filter Restriction ... | | |
| 3 17 DO Selection | stop engine lamp red | | |
| 4 01 DO Selection | disabled | | |
| 4 02 DO Selection | disabled | | |
| 4 06 DO Selection | grid heater lamp | | |
| 4 07 DO Selection | High Exhaust Temper... | | |
| 4 09 DO Selection | disabled | | |
| 4 10 DO Selection | disabled | | |

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3. Verify parameters - go to the parameters work window.
4. Verify that the parameter set to 1 13 DO Selection is set to the specific component to which this is configured. Are the parameters configured correctly?
 - a. Yes; repair the open circuit between pin 13 of the CPC connector #1 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.
 - b. No; configure the parameters correctly.

5 SPN 705/FMI 3 - GHG17

Digital Output 1 13 Circuit Failed High

Table 4.

| SPN 705/FMI 3 | |
|-----------------------------|----------------------------------|
| Description | CPC Output 1 13 Short to Voltage |
| Monitored Parameter | CPC Output 1/13 |
| Typical Enabling Conditions | Always Enabled |
| Monitor Sequence | None |
| Execution Frequency | Always Enabled |
| Typical Duration | Two Seconds |
| Dash Lamps | CEL |
| Engine Reaction | None |
| Verification | Engine On with Output Activation |

Check as follows:



WARNING: ENGINE EXHAUST

To avoid injury from inhaling engine exhaust, always operate the engine in a well-ventilated area. Engine exhaust is toxic.

1. Has the Common Powertrain Controller (CPC) recently been changed or reprogrammed?
 - a. Yes; verify that the correct CPC parameter list has been installed. If the correct calibration and correct parameter list have been installed, then Go to step 2.
 - b. No; Go to step 2.
2. Connect to DiagnosticLink[®].

| Parameter | Value | Units | Minimum |
|------------------------|-----------------------------|-------|---------|
| PGR035 Digital Outputs | | | |
| 1 04 DO Selection | ground, idle validatio... | | |
| 1 05 DO Selection | DPF Lamp | | |
| 1 13 DO Selection | DPF Lamp | | |
| 2 10 DO Selection | 0 disabled | | |
| 3 02 DO Selection | 1 MIL lamp | | |
| 3 07 DO Selection | 2 DEF Low Lamp | | |
| 3 08 DO Selection | 3 coolant temperature lamp | | |
| 3 09 DO Selection | disabled | | |
| 3 10 DO Selection | WIF-Lamp | | |
| 3 12 DO Selection | DEF Low Lamp | | |
| 3 16 DO Selection | Fuel Filter Restriction ... | | |
| 3 17 DO Selection | stop engine lamp red | | |
| 4 01 DO Selection | disabled | | |
| 4 02 DO Selection | disabled | | |
| 4 06 DO Selection | grid heater lamp | | |
| 4 07 DO Selection | High Exhaust Temper... | | |
| 4 09 DO Selection | disabled | | |
| 4 10 DO Selection | disabled | | |

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3. Verify parameters - go to the parameters work window.
4. Verify that the parameter set to 1 13 DO Selection is set to the specific component to which this is configured. Are the parameters configured correctly?
 - a. Yes; repair the short to power between pin 13 of the CPC connector #1 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.
 - b. No; configure the parameters correctly.

6 SPN 705/FMI 4 - GHG17

Digital Output 1 13 Circuit Failed Low

Table 5.

| SPN 705/FMI 4 | |
|-----------------------------|----------------------------------|
| Description | CPC Output 1 13 Short to Ground |
| Monitored Parameter | CPC Output 1/13 |
| Typical Enabling Conditions | Always Enabled |
| Monitor Sequence | None |
| Execution Frequency | Always Enabled |
| Typical Duration | Two Seconds |
| Dash Lamps | CEL |
| Engine Reaction | None |
| Verification | Engine On with Output Activation |



Check as follows:



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To avoid injury from inhaling engine exhaust, always operate the engine in a well-ventilated area. Engine exhaust is toxic.

1. Has the Common Powertrain Controller (CPC) recently been changed or reprogrammed?
 - a. Yes; verify that the correct CPC parameter list has been installed. If the correct calibration and correct parameter list have been installed, then Go to step 2.
 - b. No; Go to step 2.
2. Connect to DiagnosticLink[®].

| Parameter | Value | Units | Minimum |
|--|---|-------|---------|
|   PGR035 Digital Outputs | | | |
| 1 04 DO Selection | ground, idle validatio... | | |
| 1 05 DO Selection | DPF Lamp | | |
| 1 13 DO Selection | <div style="border: 1px solid black; background-color: #e0e0e0; padding: 2px;"> ▼ </div> | | |
| 2 10 DO Selection | 0 disabled | | |
| 3 02 DO Selection | 1 MIL lamp | | |
| 3 07 DO Selection | 2 DEF Low Lamp | | |
| 3 08 DO Selection | 3 coolant temperature lamp | | |
| 3 09 DO Selection | disabled | | |
| 3 10 DO Selection | WIF-Lamp | | |
| 3 12 DO Selection | DEF Low Lamp | | |
| 3 16 DO Selection | Fuel Filter Restriction ... | | |
| 3 17 DO Selection | stop engine lamp red | | |
| 4 01 DO Selection | disabled | | |
| 4 02 DO Selection | disabled | | |
| 4 06 DO Selection | grid heater lamp | | |
| 4 07 DO Selection | High Exhaust Temper... | | |
| 4 09 DO Selection | disabled | | |
| 4 10 DO Selection | disabled | | |

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3. Verify parameters - go to the parameters work window.
4. Verify that the parameter set to 1 13 DO Selection is set to the specific component to which this is configured. Are the parameters configured correctly?
 - a. Yes; repair the short to ground between pin 13 of the CPC connector #1 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.
 - b. No; configure the parameters correctly.

7 SPN 705/FMI 5 - GHG17

Digital Output 1 13 Circuit Open

Table 6.

| SPN 705/FMI 5 | |
|-----------------------------|----------------------------------|
| Description | CPC Output 1 13 Open Circuit |
| Monitored Parameter | CPC Output 1/13 |
| Typical Enabling Conditions | Always Enabled |
| Monitor Sequence | None |
| Execution Frequency | Always Enabled |
| Typical Duration | Two Seconds |
| Dash Lamps | CEL |
| Engine Reaction | None |
| Verification | Engine On with Output Activation |



Check as follows:



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 - a. Yes; verify that the correct CPC parameter list has been installed. If the correct calibration and correct parameter list have been installed, then Go to step 2.
 - b. No; Go to step 2.
2. Connect to DiagnosticLink[®].

| Parameter | Value | Units | Minimum |
|--|---|-------|---------|
|   PGR035 Digital Outputs | | | |
| 1 04 DO Selection | ground, idle validatio... | | |
| 1 05 DO Selection | DPF Lamp | | |
| 1 13 DO Selection | <div style="border: 1px solid black; background-color: #e0e0e0; padding: 2px;"> ▼ </div> | | |
| 2 10 DO Selection | 0 disabled | | |
| 3 02 DO Selection | 1 MIL lamp | | |
| 3 07 DO Selection | 2 DEF Low Lamp | | |
| 3 08 DO Selection | 3 coolant temperature lamp | | |
| 3 09 DO Selection | disabled | | |
| 3 10 DO Selection | WIF-Lamp | | |
| 3 12 DO Selection | DEF Low Lamp | | |
| 3 16 DO Selection | Fuel Filter Restriction ... | | |
| 3 17 DO Selection | stop engine lamp red | | |
| 4 01 DO Selection | disabled | | |
| 4 02 DO Selection | disabled | | |
| 4 06 DO Selection | grid heater lamp | | |
| 4 07 DO Selection | High Exhaust Temper... | | |
| 4 09 DO Selection | disabled | | |
| 4 10 DO Selection | disabled | | |

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3. Verify parameters - go to the parameters work window.
4. Verify that the parameter set to 1 13 DO Selection is set to the specific component to which this is configured. Are the parameters configured correctly?
 - a. Yes; repair the open circuit between pin 13 of the CPC connector #1 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.
 - b. No; configure the parameters correctly.

8 SPN 705/FMI 3 - EPA07 - EPA10 - GHG14

Digital Output 1 13 Circuit Failed High

Table 7.

| SPN 705/FMI 3 | |
|-----------------------------|----------------------------------|
| Description | CPC Output 1 13 Short to Voltage |
| Monitored Parameter | CPC Output 1/13 |
| Typical Enabling Conditions | Always Enabled |
| Monitor Sequence | None |
| Execution Frequency | Always Enabled |
| Typical Duration | Two Seconds |
| Dash Lamps | CEL |
| Engine Reaction | None |
| Verification | Engine On with Output Activation |

Check as follows:



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 - a. Yes; verify that the correct CPC parameter list has been installed. If the correct calibration and correct parameter list have been installed, then Go to step 2.
 - b. No; Go to step 2.
2. Connect to DiagnosticLink[®].

| Parameter | Value | Units | Minimum |
|------------------------|-----------------------------|-------|---------|
| PGR035 Digital Outputs | | | |
| 1 04 DO Selection | ground, idle validatio... | | |
| 1 05 DO Selection | DPF Lamp | | |
| 1 13 DO Selection | DPF Lamp | | |
| 2 10 DO Selection | 0 disabled | | |
| 3 02 DO Selection | 1 MIL lamp | | |
| 3 07 DO Selection | 2 DEF Low Lamp | | |
| 3 08 DO Selection | 3 coolant temperature lamp | | |
| 3 09 DO Selection | disabled | | |
| 3 10 DO Selection | WIF-Lamp | | |
| 3 12 DO Selection | DEF Low Lamp | | |
| 3 16 DO Selection | Fuel Filter Restriction ... | | |
| 3 17 DO Selection | stop engine lamp red | | |
| 4 01 DO Selection | disabled | | |
| 4 02 DO Selection | disabled | | |
| 4 06 DO Selection | grid heater lamp | | |
| 4 07 DO Selection | High Exhaust Temper... | | |
| 4 09 DO Selection | disabled | | |
| 4 10 DO Selection | disabled | | |

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3. Verify parameters - go to the parameters work window.
4. Verify that the parameter set to 1 13 DO Selection is set to the specific component to which this is configured. Are the parameters configured correctly?
 - a. Yes; repair the short to power between pin 13 of the CPC connector #1 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.
 - b. No; configure the parameters correctly.

9 SPN 705/FMI 4 - EPA07 - EPA10 - GHG14

Digital Output 1 13 Circuit Failed Low

Table 8.

| SPN 705/FMI 4 | |
|-----------------------------|----------------------------------|
| Description | CPC Output 1 13 Short to Ground |
| Monitored Parameter | CPC Output 1/13 |
| Typical Enabling Conditions | Always Enabled |
| Monitor Sequence | None |
| Execution Frequency | Always Enabled |
| Typical Duration | Two Seconds |
| Dash Lamps | CEL |
| Engine Reaction | None |
| Verification | Engine On with Output Activation |

Check as follows:



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 - a. Yes; verify that the correct CPC parameter list has been installed. If the correct calibration and correct parameter list have been installed, then Go to step 2.
 - b. No; Go to step 2.
2. Connect to DiagnosticLink[®].

| Parameter | Value | Units | Minimum |
|------------------------|-----------------------------|-------|---------|
| PGR035 Digital Outputs | | | |
| 1 04 DO Selection | ground, idle validatio... | | |
| 1 05 DO Selection | DPF Lamp | | |
| 1 13 DO Selection | DPF Lamp | | |
| 2 10 DO Selection | 0 disabled | | |
| 3 02 DO Selection | 1 MIL lamp | | |
| 3 07 DO Selection | 2 DEF Low Lamp | | |
| 3 08 DO Selection | 3 coolant temperature lamp | | |
| 3 09 DO Selection | disabled | | |
| 3 10 DO Selection | WIF-Lamp | | |
| 3 12 DO Selection | DEF Low Lamp | | |
| 3 16 DO Selection | Fuel Filter Restriction ... | | |
| 3 17 DO Selection | stop engine lamp red | | |
| 4 01 DO Selection | disabled | | |
| 4 02 DO Selection | disabled | | |
| 4 06 DO Selection | grid heater lamp | | |
| 4 07 DO Selection | High Exhaust Temper... | | |
| 4 09 DO Selection | disabled | | |
| 4 10 DO Selection | disabled | | |

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3. Verify parameters - go to the parameters work window.
4. Verify that the parameter set to 1 13 DO Selection is set to the specific component to which this is configured. Are the parameters configured correctly?
 - a. Yes; repair the short to ground between pin 13 of the CPC connector #1 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.
 - b. No; configure the parameters correctly.

10 SPN 705/FMI 5 - GHG14

Digital Output 1 13 Circuit Open

Table 9.

| SPN 705/FMI 5 | |
|-----------------------------|----------------------------------|
| Description | CPC Output 1 13 Open Circuit |
| Monitored Parameter | CPC Output 1/13 |
| Typical Enabling Conditions | Always Enabled |
| Monitor Sequence | None |
| Execution Frequency | Always Enabled |
| Typical Duration | Two Seconds |
| Dash Lamps | CEL |
| Engine Reaction | None |
| Verification | Engine On with Output Activation |

Check as follows:



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To avoid injury from inhaling engine exhaust, always operate the engine in a well-ventilated area. Engine exhaust is toxic.

1. Has the Common Powertrain Controller (CPC) recently been changed or reprogrammed?
 - a. Yes; verify that the correct CPC parameter list has been installed. If the correct calibration and correct parameter list have been installed, then Go to step 2.
 - b. No; Go to step 2.
2. Connect to DiagnosticLink[®].

| Parameter | Value | Units | Minimum |
|----------------------------|-----------------------------|-------|---------|
| [-] PGR035 Digital Outputs | | | |
| 1 04 DO Selection | ground, idle validatio... | | |
| 1 05 DO Selection | DPF Lamp | | |
| 1 13 DO Selection | DPF Lamp | | |
| 2 10 DO Selection | 0 disabled | | |
| 3 02 DO Selection | 1 MIL lamp | | |
| 3 07 DO Selection | 2 DEF Low Lamp | | |
| 3 08 DO Selection | 3 coolant temperature lamp | | |
| 3 09 DO Selection | disabled | | |
| 3 10 DO Selection | WIF-Lamp | | |
| 3 12 DO Selection | DEF Low Lamp | | |
| 3 16 DO Selection | Fuel Filter Restriction ... | | |
| 3 17 DO Selection | stop engine lamp red | | |
| 4 01 DO Selection | disabled | | |
| 4 02 DO Selection | disabled | | |
| 4 06 DO Selection | grid heater lamp | | |
| 4 07 DO Selection | High Exhaust Temper... | | |
| 4 09 DO Selection | disabled | | |
| 4 10 DO Selection | disabled | | |

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3. Verify parameters - go to the parameters work window.
4. Verify that the parameter set to 1 13 DO Selection is set to the specific component to which this is configured. Are the parameters configured correctly?
 - a. Yes; repair the open circuit between pin 13 of the CPC connector #1 and the wired component. For wiring schematic information, refer to Original Equipment Manufacturer (OEM) literature.
 - b. No; configure the parameters correctly.