Table 1. ATS and Generator Controller Matrix

| Generator             | RTC-50 Controller | RTC-100 Controller | ATC-100 Controller | ATC-300 Controller |
|-----------------------|-------------------|--------------------|--------------------|--------------------|
| Air Cooled / Nexus    | Diagram 1         | Diagram 3          | Not Applicable     | Not Applicable     |
| Liquid Cooled / Nexus | Diagram 2         | Diagram 4          | Diagram 5          | Diagram 6          |

Use Table 1 to determine which connection diagram should be used with your Eaton Generator and Eaton Automatic Transfer switch application. The diagram will show you how the generator start feature, for that combination of generator and ATS controller, will be field wired.

Table 2, on page 2, shows the Eaton generator catalog numbers and which generator controllers are supplied with those particular generators. This will help assist you in determining which generator controller you have installed on your Eaton generator

Table 3, on page 2, shows the Eaton ATS catalog numbers and which ATS controllers are supplied with those particular ATS's. This will help assist you in determining which ATS controller you have installed on your Eaton ATS.



Table 2. Generator Controllers and Generator Catalog Numbers

| Generators Associated with Each Generator Controller |                       |                       |  |  |  |
|--|-----------------------|-----------------------|--|--|--|
| Air Cooled Controller / Nexus                        | Liquid Cooled / Nexus | Liquid Cooled / Nexus |  |  |  |
| EGEN8  | EGEN22                | EGEN70                |  |  |  |
| EGEN10   | EGEN25                | EGEN80                |  |  |  |
| EGEN14   | EGEN27                | EGEN100               |  |  |  |
| EGEN17   | EGEN36                | EGEN130               |  |  |  |
| EGEN17A  | EGEN45                | EGEN150               |  |  |  |
| EGEN20A  | EGEN48                |                       |  |  |  |
|  | EGEN60                |                       |  |  |  |

#### Table 3. ATS's and ATS Catalog Numbers

| ATS's Associated with each ATS Controller |                |            |            |            |  |
|---|----------------|------------|------------|------------|--|
| RTC-50                                    | RTC-100        | ATC-100    |            | ATC-300    |  |
| EGS50L12                                  | EGSU100AC      | 69C2562G01 | 69C2562G11 | 69C2563G06 |  |
| EGS50L12R                                 | EGSU100NSEAC   | 69C2562G02 | 69C2562G12 | 69C2563G07 |  |
| EGS100                                    | EGSU100L24RAC  | 69C2562G03 | 69C2562G13 | 69C2563G08 |  |
| EGS100SE                                  | EGSU150NSEAC   | 69C2562G04 | 69C2562G14 | 69C2563G09 |  |
| EGS100L24R                                | EGSU200AC      | 69C2562G05 | 69C2562G50 | 69C2563G10 |  |
| EGS200                                    | EGSU200NSEAC   | 69C2562G06 | 69C2562G51 | 69C2563G11 |  |
| EGS200SE                                  | EGSU400NSEAC   | 69C2562G09 | 69C2562G52 | 69C2563G12 |  |
| EGS400NSE                                 | EGSU100ACA     | 69C2562G10 | 69C2562G53 | 69C2563G13 |  |
| EGS100A                                   | EGSU100NSEACA  |            | 69C2563G01 | 69C2563G14 |  |
| EGS100SEA                                 | EGSU100L24RACA |            | 69C2563G02 | 69C2563G50 |  |
| EGS100L24RA                               | EGS150NSEACA   |            | 69C2563G03 | 69C2563G51 |  |
| EGS200A                                   | EGSU200ACA     |            | 69C2563G04 | 69C2563G52 |  |
| EGS200SEA                                 | EGSU200NSEACA  |            | 69C2563G05 | 69C2563G53 |  |

## Connection of EATON RTC-50 ATS Controller to Utility Sensing on EATON Air Cooled Generator with Nexus Controller

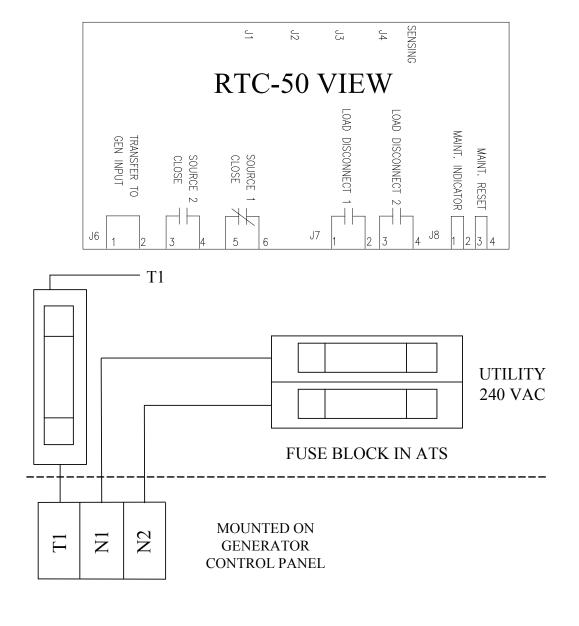


Figure 1. Connection of EATON RTC-50 ATS Controller to Utility Sensing on EATON Air Cooled Generator with Nexus Controler.

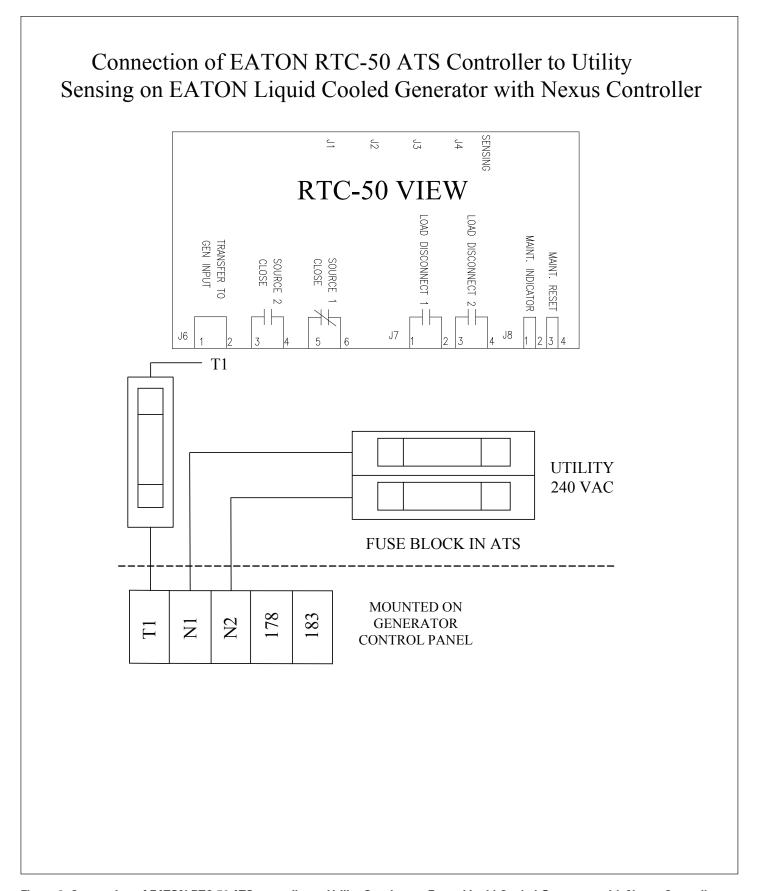


Figure 2. Connection of EATON RTC-50 ATS controller to Utility Sensing on Eaton Liquid Cooled Generator with Nexus Controller.

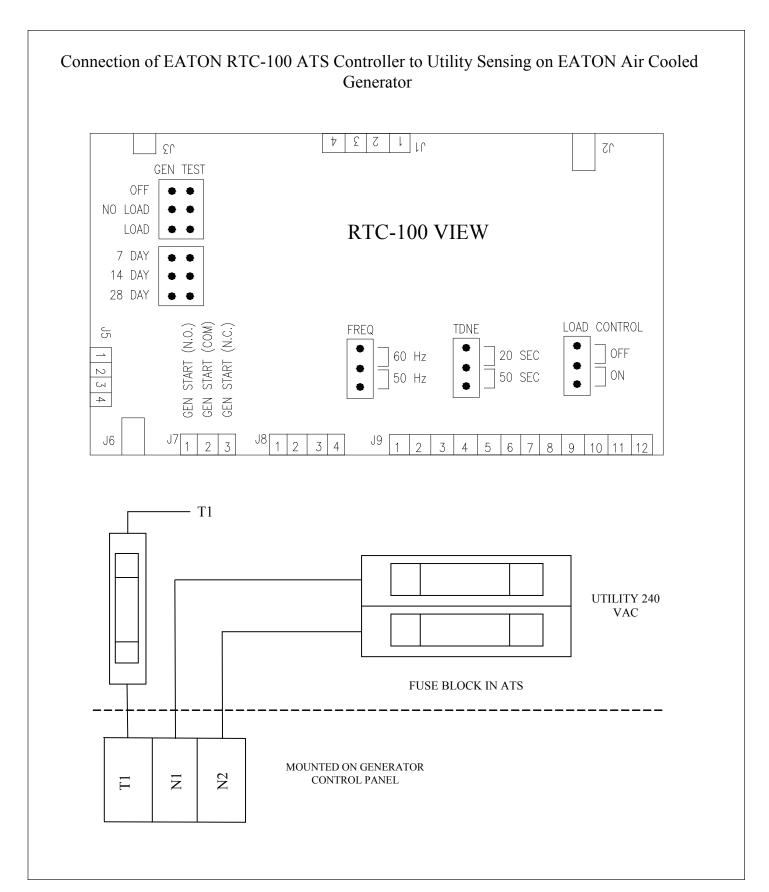
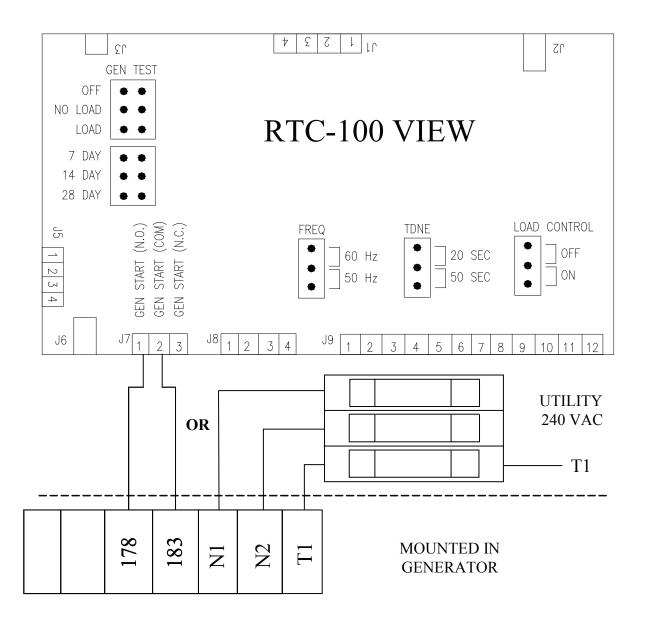


Figure 3. Connection of EATON RTC-100 ATS Controller to Utility Sensing on EATON Air Cooled Generator with Nexus Controller.

# Connection of EATON RTC-100 ATS Controller to EATON Liquid Cooled Generator with Nexus Controller



Only utilize Gen Start contacts J7-1 and J7-2 to 178, 183 or utility 240 Vac to N1, N2. **Do NOT connect both.** 

Some reprogramming of the Nexus control may be required for 2 wire start connection.

Figure 4. Connection of EATON RTC-100 ATS Controller to EATON Liquid Cooled Generator with Nexus Controller.

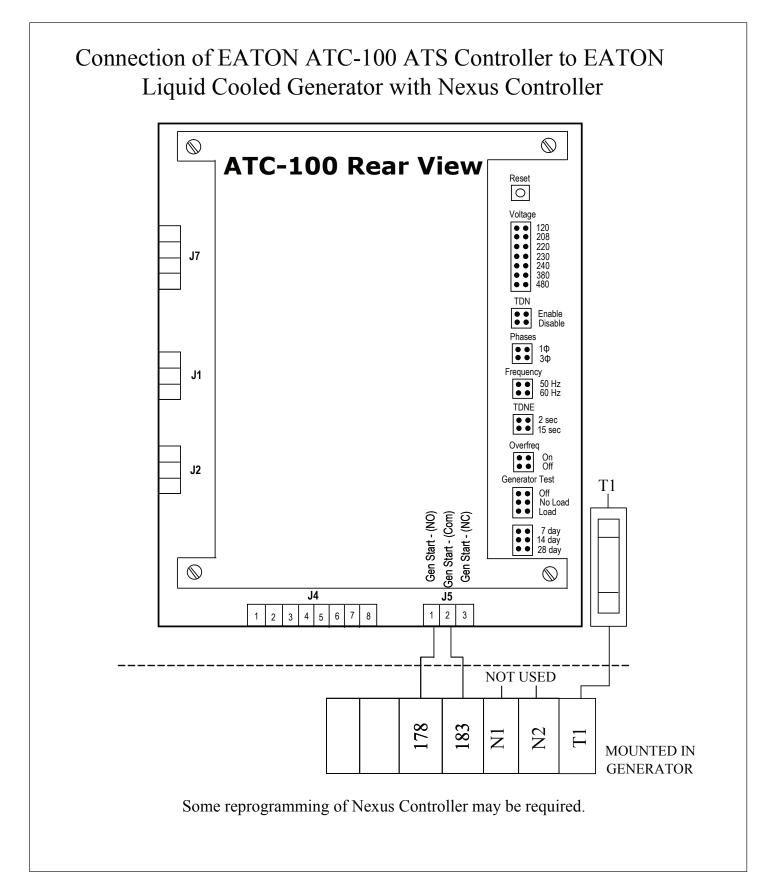


Figure 5. Connection of EATON ATC-100 ATS Controller to Eaton Liquid Cooled Generator Controller with Nexus Controller.

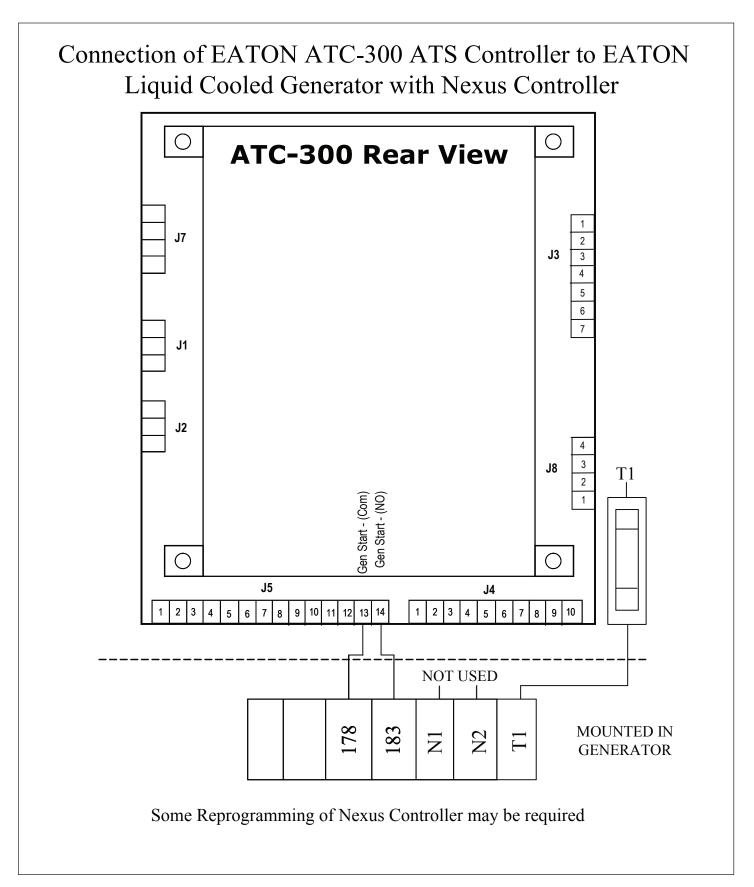


Figure 6. Connection of EATON ATC-300 ATS Controller to Eaton Liquid Cooled Generator with Nexus Controller.

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Effective February 2011

Notes:

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Eaton Generator and Automatic Transfer Switch Generator Start Connection Diagrams

Notes:

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Notes:

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#### Eaton Generator and Automatic Transfer Switch Generator Start Connection Diagrams

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