Rev.2 Effective February 2011

Eaton Generator and Automatic Transfer Switch Generator Start Connection Diagrams

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		

Table 1. ATS and Generator Controller Matrix

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.



Eaton Generator and Automatic Transfer Switch Generator Start Connection Diagrams

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	

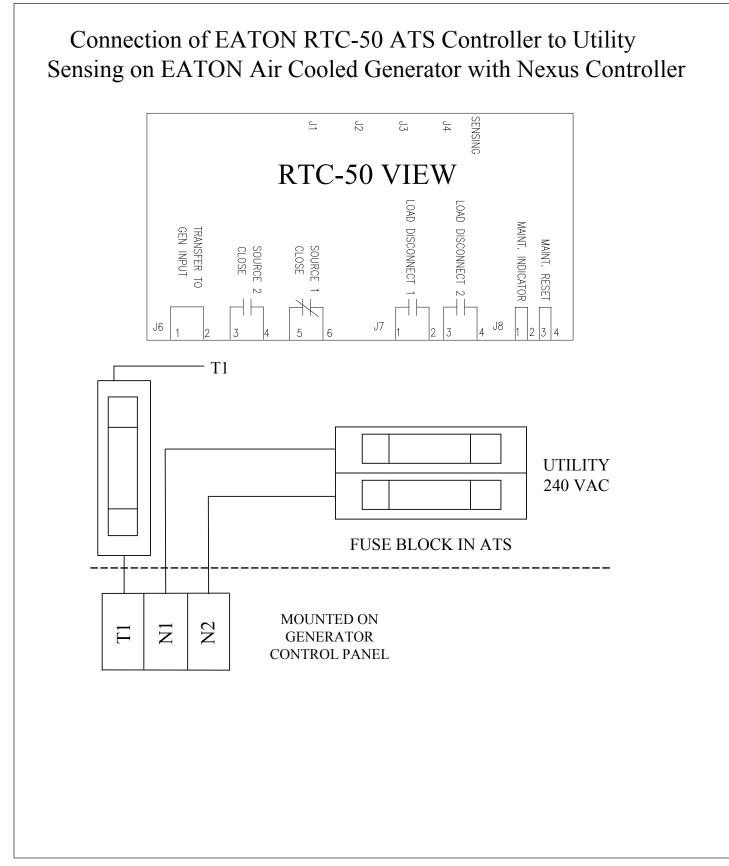


Figure 1. Connection of EATON RTC-50 ATS Controller to Utility Sensing on EATON Air Cooled Generator with Nexus Controler.

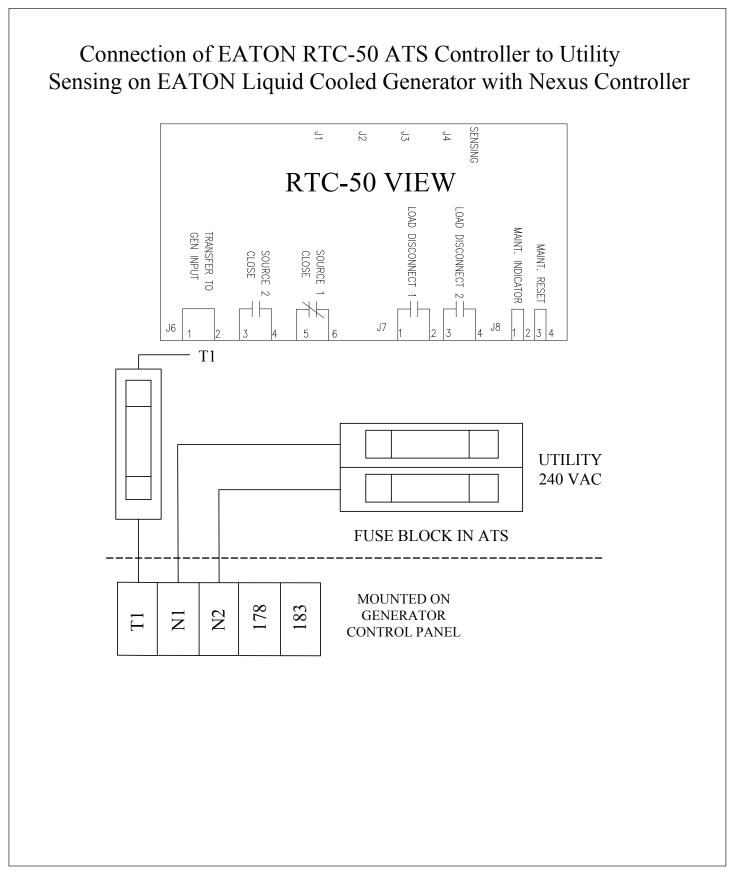


Figure 2. Connection of EATON RTC-50 ATS controller to Utility Sensing on Eaton Liquid Cooled Generator with Nexus Controller.

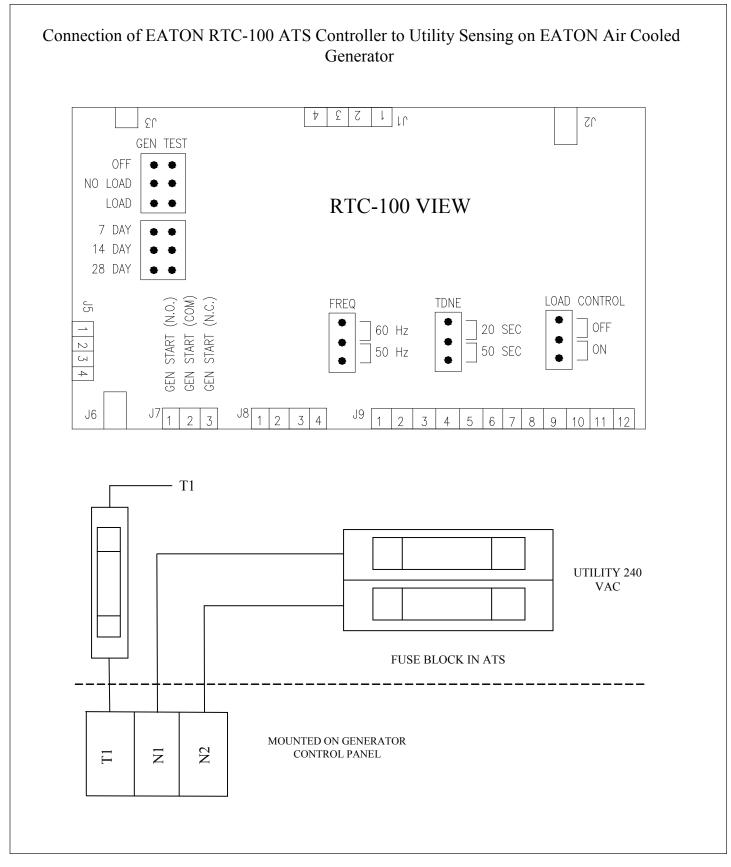


Figure 3. Connection of EATON RTC-100 ATS Controller to Utility Sensing on EATON Air Cooled Generator with Nexus Controller.

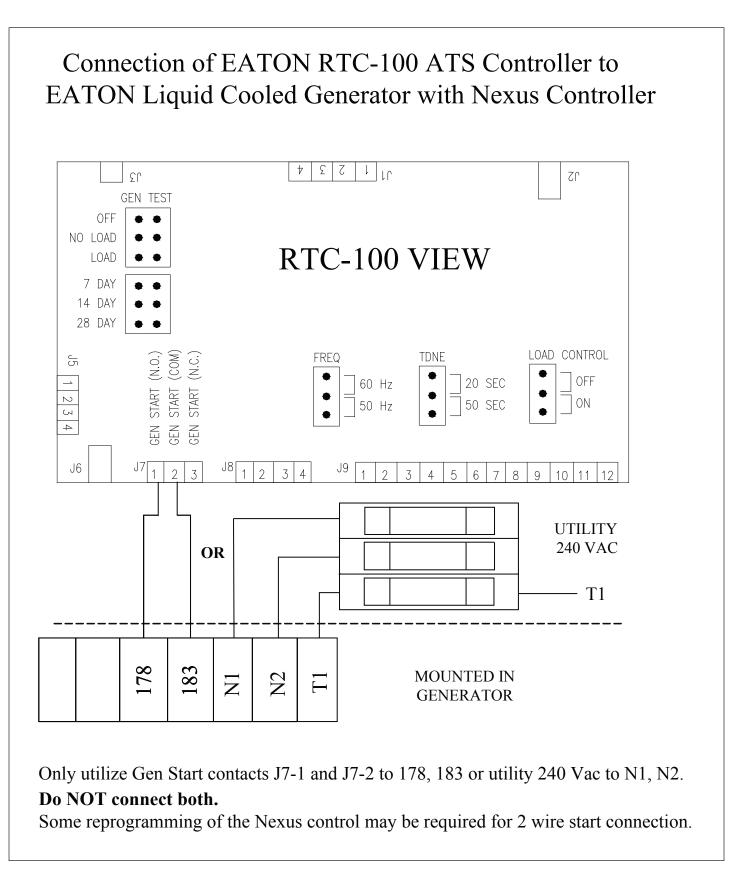


Figure 4. Connection of EATON RTC-100 ATS Controller to EATON Liquid Cooled Generator with Nexus Controller.

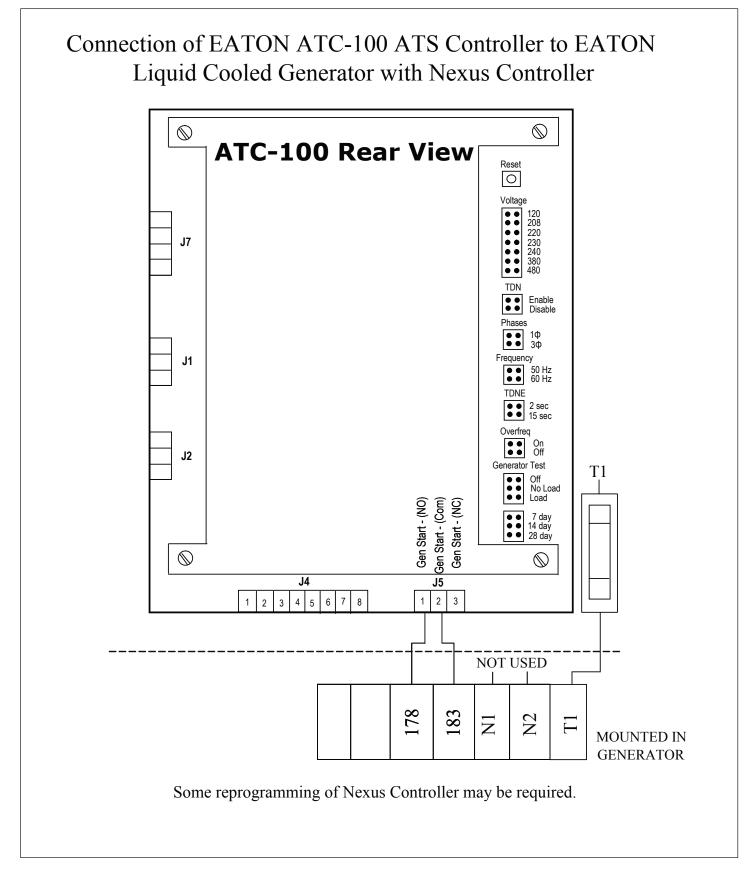


Figure 5. Connection of EATON ATC-100 ATS Controller to Eaton Liquid Cooled Generator Controller with Nexus Controller.

Connection of EATON ATC-300 ATS Controller to EATON Liquid Cooled Generator with Nexus Controller

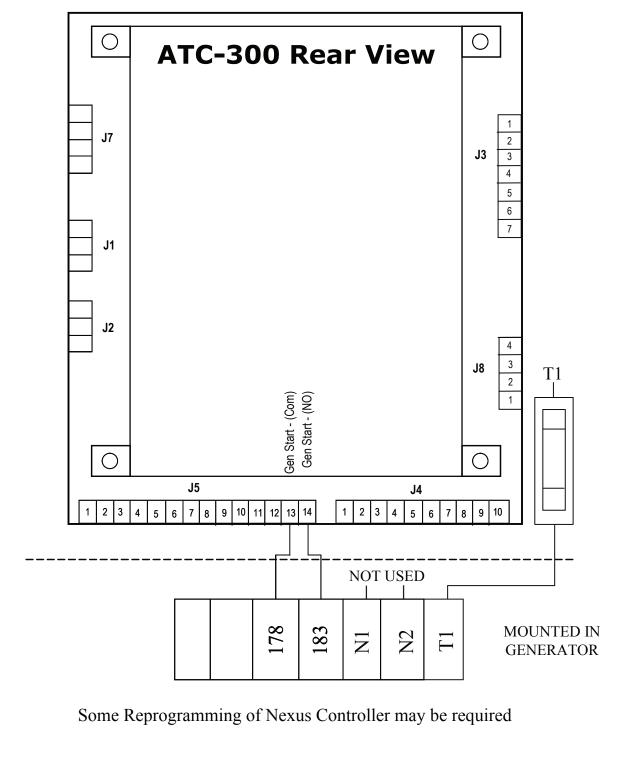


Figure 6. Connection of EATON ATC-300 ATS Controller to Eaton Liquid Cooled Generator with Nexus Controller.

Notes:

Instruction Booklet **IB 70-8738** Effective February 2011

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