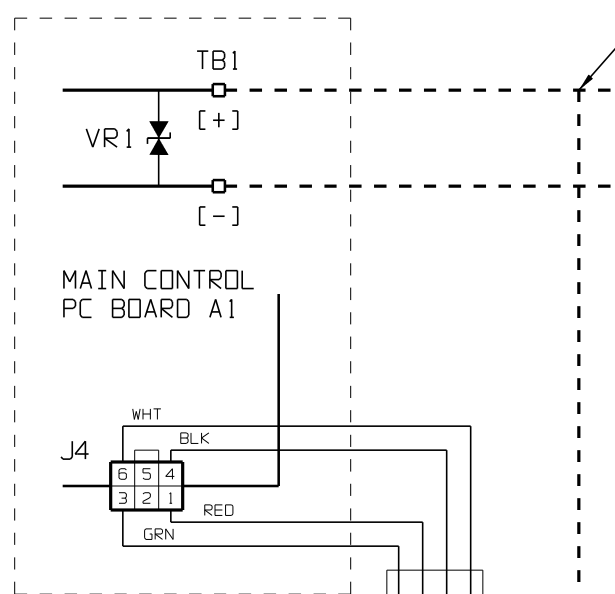


# SYSTEM SCHEMATIC

## PRIMARY AT SERIES CHARGER



NOT SUPPLIED  
(NOTE 3)

[+] USER BATTERY AND LOAD  
[-]

## MAIN CONTROL PC BOARD A1

### INSTALLING THE AT SERIES FORCED LOAD SHARE OPTION:

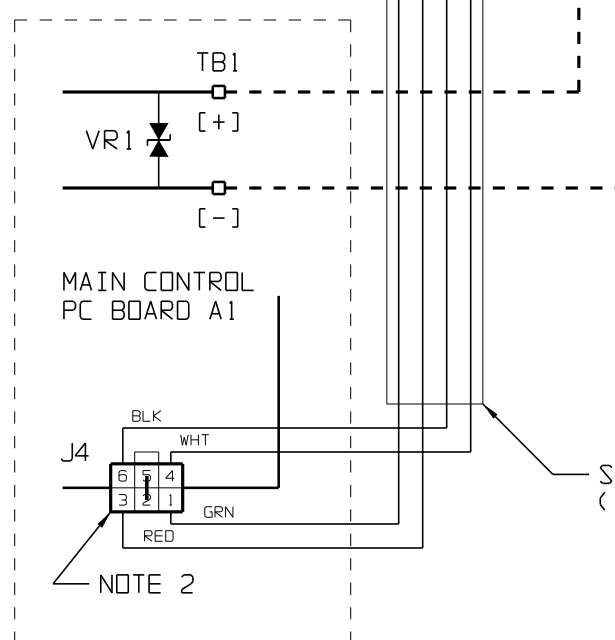
See Instruction JA5054-00.

### OPERATING CHARGERS WITH LOAD SHARING:

Restore the external power connections to the chargers, and restart the chargers according to the normal procedure in the AT Series Battery Charger Operating and Service Instructions. After the chargers restart, the primary charger attempts to establish communication with the secondary. If communication is successful, the chargers behave as follows:

- The primary charger displays the message LS P (Load Share, Primary) on the front panel, alternating with the normal display of output voltage and current.
- The secondary charger displays the message LS S (Load Share, Secondary) on the front panel, alternating with the normal display of output voltage and current.
- The primary charger controls all voltage settings for both chargers. You may adjust any voltage (float, equalize, alarm settings, etc.) at the front panel of the primary charger. The front panel of the secondary charger won't allow any settings to be changed.
- If one charger loses ac power (or is turned off), the remaining charger returns to independent operation, whether it was originally the primary or secondary. For this reason, it is important to set up both chargers initially for the same operating voltages. If an alarm condition occurs, both chargers revert to independent operation for the duration of the alarm.
- In the event of a fault in the interconnection, or any other problem with communication, the chargers return to independent operation, and the front panel on each charger displays the message E 14, indicating the fault.
- There is a delay of up to four seconds for chargers to establish load sharing communication. If communication is broken (or power is lost for one charger), there is up to a four second delay for the other charger to resume independent operation.
- If you need to interchange the primary and secondary chargers, simply reverse the interconnection cable.
- The presence of the interconnection cable (and a good interconnection) forces the charger into load sharing. Controlling load sharing from the front panel is neither necessary nor possible.
- The load share option is compatible with the temperature compensation option for the AT Series. However, only the battery temperature probe for the Primary charger is active. If you interchange the Primary and Secondary chargers, or discontinue load sharing, be sure to check that both temperature probes are working properly.

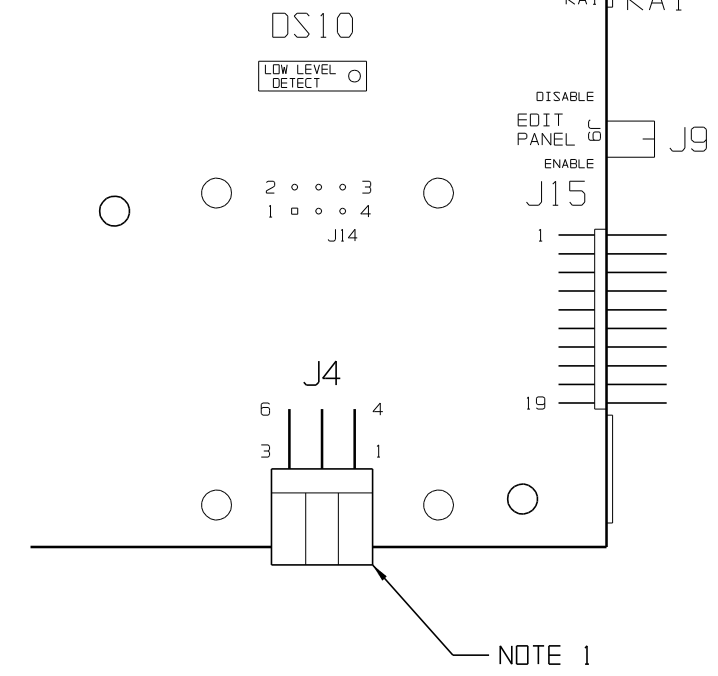
## SECONDARY AT SERIES CHARGER



SUPPLIED  
(NOTE 1)

NOTE 2

## MAIN CONTROL PC BOARD A1



NOTE 1

### NOTES:

- 1) FOR TWO (2) UNITS TO LOAD SHARE, CONNECT A1-J4 OF "PRIMARY" CHARGER TO A1-J4 OF SECONDARY CHARGER USING SUPPLIED INTERCONNECTION CABLE (EH5041-0#).
- 2) J4-2 AND J4-5 ARE FACTORY-JUMPERED ON THE "SECONDARY" END OF THE SUPPLIED INTERCONNECTION CABLE.
- 3) BATTERY AND LOAD INTER-CONNECTION CABLING MAY NOT BE SUPPLIED WITH CHARGER OR LOAD SHARING OPTION (MAY BE SUPPLIED BY BATTERY MANUFACTURER OR OTHER PARTY).
- 4) AT SERIES BATTERY CHARGER FORCED LOAD SHARING FEATURE IS FUNCTIONAL ONLY WITH TWO (2) UNITS UNITS OF IDENTICAL RATING.
- 5) FOR DETAILED INSTALLATION AND OPERATING PROCEDURES, SEE INSTRUCTION JA5054-00.

			THIRD ANGLE PROJECTION			
			DRAWN BY MCR 021807	TITLE AT SERIES FORCED LOAD SHARING OPTION DUAL CHARGER INTERCONNECTION DETAIL		
1	21385	110708	ELECTRONIC APPROVAL SIGNATURES MAINTAINED BY MFG ECN LOG		DRAWING No JE5154-00	REV 1
0	20566	021807	UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:		<b>A</b>	
REV	ECN No	DATE	SCALE NTS	PART No JE5154-00	SHEET 1 OF 1	