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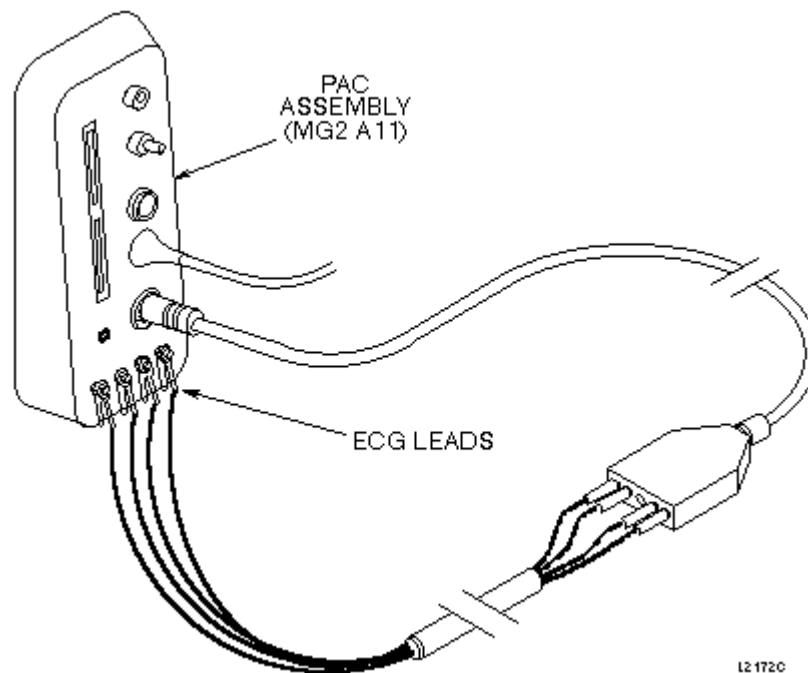
Description - This test checks the functionality of all the ECG leads.

1- OVERVIEW

All the of the ECG clip leads are connected together. The right leg (RL) lead supplies a +2.5Vdc drive signal to the right arm (RA), left arm (LA), and left leg (LL) leads. The signal from each of these leads is read and checked to ensure that their respective inputs to the ECG A/D converter are in the $+2.5V \pm 200mv$ range. If any of them are not in this range, an error message is entered in the message log. If the signals from the RA, LA, and LL leads are all out of range, it is assumed that the RL lead has failed.

2- ECG LEADS CHECK

1. Connect the cardiac gating lead to the Physical Acquisition Controller (PAC) Assembly as shown in Illustration 2-1. Connect the clip leads to the test points on the PAC (the test points are all shorted together). The clips leads are color-coded: Red is LL, White is RA, Black is LA, and Green is RL.



PAC-II ASSEMBLY WITH ECG LEADS CONNECTED (INVIVO ECG LEADS SHOWN)
ILLUSTRATION 2-1

2. From the Service Desktop, select **[Diagnostics]**, **[Diags Main Menu]**, then **[Start...]**.
3. When the Diagnostics main menu appears, click on **[Reset Test Selections]**.
4. Click on **[IPG]**, **[Manual]**, and then **[PAC ECG Leads]**.
5. Start the test sequence by closing the selection windows and click on **[Run Diags]**.
6. The system resets the TPS/IPG. The following message appears at the bottom of the Results window while the test is running:

Running IPG Manual Diags

7. The test takes about 30 seconds. If any lead fails, an error message indicating the faulty lead is reported in the Message Log. Example:

The left arm ECG lead is failing or has failed. Check this lead and replace if necessary.

8. Click on **[Quit]** to exit the Diagnostics window. The TPS will reset upon exit.

REVISION HISTORY

REV	DATE	AUTHOR	PRIMARY REASONS FOR CHANGE
0	July 28, 1998	M. Whitlow	Initial conversion from Toolbook to Word.
1	Oct 2, 1998	M. Keber	Update illustration to show new product ECG lead.
2	Oct 14, 1999	M. Keber	Removed references to "diag status messages" no longer reported in the Message Log based on bay validation.