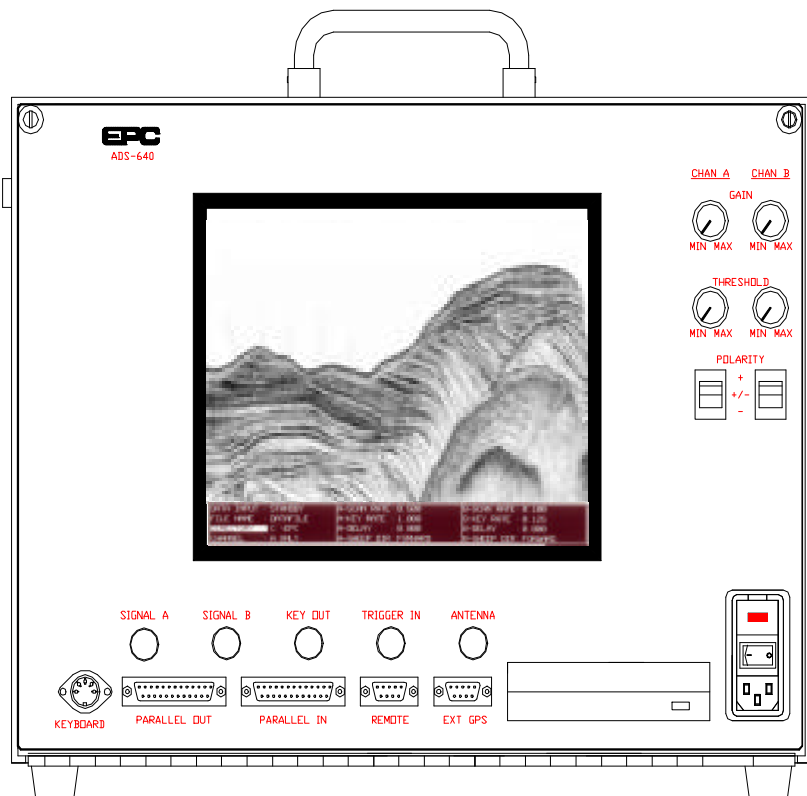


ADS-640 EXTERNAL VGA FIELD RETROFIT PROCEDURE



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Date of Release: March 20, 1998			
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1. APPLICATION

This Service Bulletin involves replacing the parallel input cable with an internal VGA cable in the model ADS-640.

2. PURPOSE

This modifications allows the ADS user to use an external VGA monitor instead of the display included with the system.

3. WHEN TO BE ACCOMPLISHED?

This is a field modification only to be done if the ADS cannot be sent to EPC Labs.

4. BY WHOM TO BE ACCOMPLISHED?

This procedure is designed to be done in the field by a technician. It assumes that the user has no intention of using the the Parallel Input Port in the future.

5. WHAT IS REQUIRED?

A. SUPPLY INFORMATION AND REQUIREMENTS

(1) KITS REQUIRED PER ADS-External Video Mod

The following will be furnished as a complete kit:

Part No.	Description	Quantity
802348	ADS VGA Field Retrofit Kit	1
802349	Jaz disk with new program file	1
802346	Internal Video Cable	1
802347	External Video Cable	1
222225	ADS VGA Field Retrofit Instructions	1

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(2) DISPOSITION OF REMOVED AND REPLACED PARTS

The original Parts should be kept on hand in case future applications require use of the Parallel Input Interface

(3) DRAWINGS REQUIRED

QTY	PART NO.	NOMENCLATURE
1	802346	Internal VGA Cable
1	802347	External VGA Cable
1	802349	Jaz Disk

(4) APPROXIMATE AVAILABILITY OF KITS AT RECORDER SUPPLY SOURCE

Kits will be stored in the stock room under the number 802348 - Retrofit Kit or their appropriate part number.

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B. PERSONNEL INFORMATION AND REQUIREMENTS

LETTER	WORK PHASES	SKILL LEVEL	MAN HRS REQ. (hr.)
A	Power up ADS	Operator	0 min
B	Exit to DOS prompt	Operator	.5 min
C	Insert "ADS-640 V2.1" Jazz disk	Operator	.5 min
D	Replace ADS executable	Operator	2 min
E	Prepare to open Front Panel	Operator	1 min
F	Open Front Panel	Technician	1 min
G	Remove Parallel Input Cable	Technician	5 min
H	Remove Daughter board	Technician	1 min
I	Install Internal Video Cable	Technician	5 min
J	Connect 16 pin Header.	Technician	2 min
K	Re-attach Daughter Board	Technician	1 min
L	Close Front Panel	Technician	1 min
M	Set up for testing	Technician	1 min
N	Test Operation	Technician	5 min
total			26.0 min



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c. SPECIAL TOOLS, JIGS AND FIXTURES REQUIRED

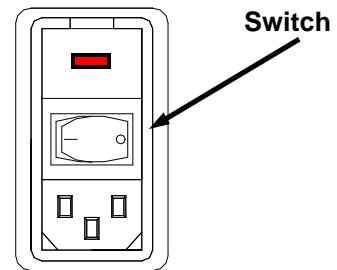
Special tools are not required with this Service Bulletin.

6. WORK TO BE ACCOMPLISHED BY SITE PERSONNEL

For each ADS-640 do the following:

A. Power up the ADS


1. Operate the Power Switch to the "ON" or "1" position.



84 - 265 VAC

B. Exit to DOS prompt

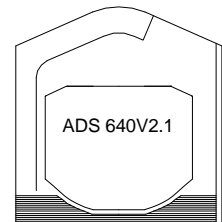
1. Wait until the ADS has loaded the Application Program.

2. Type the following:  + 

3. The ADS will exit the Application Program and only a **C:>** prompt will be displayed.

C. Insert "ADS-640 V2.1" Jaz Disk

1. Press the **Eject** button to remove any disk currently in the Jaz drive (you may have to wait a few minutes for disk to eject).



2. Insert the disk labeled "ADS-640 V2.1" that came with the Retrofit Kit. Wait a few minutes for the disk to spin up.

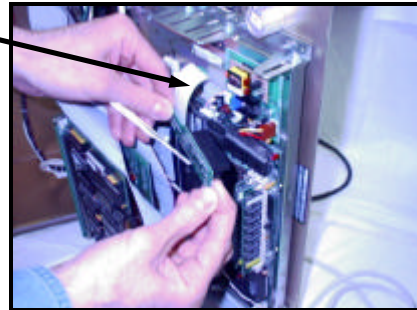
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on front panel.

2. Disconnect Header Connector of Parallel Input cable from Analog Interface Board by releasing the cable locks.
3. Slide cable out of ADS through the Front Panel.



Leave Ribbon
Cable Connected

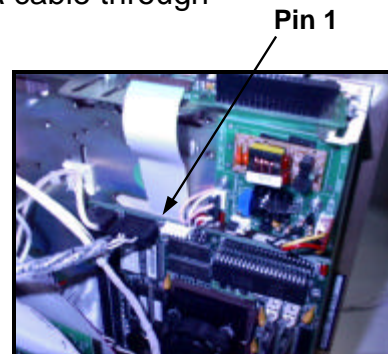


H. Remove Daughter board -

1. Locate the Daughter board on **J13** of the Motherboard.
2. Gently lift the Daughter Board free from the Mother Board without disturbing the ribbon cable on **J2** of the Daughter Board.

I. Install Internal Video Cable -

1. Feed 16 pin header connector of the Internal VGA cable through the opening in the Front Panel.
2. Use the mounting hardware included to secure the 25 pin D connector to the front panel.

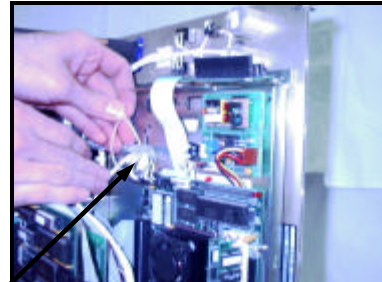


J. Connect 16 pin Header -

1. Observe the black 16 pin header connector, notice the molded arrow which identifies **pin 1**.

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2. Orient the header connector over **J9** so that pin 1 is closest to the adjacent white connector. The key should be facing upward.
3. Insert the header onto **J9** as far as possible.
4. Secure the cable with the tie-wrap and sticky square as shown.



Tie-Wrap and
Cable Tie Mount

K. Re-attach Daughter Board -

1. Carefully re-attach Daughter Board to **J-13** of Mother Board.
2. Make sure all pins are inserted into the original sockets.



L. Close Front Panel -

1. Make sure Front Panel connector hardware is secure.
2. Close and lock the Front Panel using screw locks.
3. Set the ADS upright.

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M. Setup for testing -

1. Reconnect Power Cable.
2. Reconnect Keyboard.
3. Connect External VGA cable and secure with mounting screws.

N. Test Operation -

1. Power up monitor.
2. Power up ADS.
3. The Application program will now appear on the external monitor instead of the ADS display.
4. Playback a recorded file to verify proper operation.



REV	DATE	DESCRIPTION