Option Instructions

Asynchronous Communications Adapter

For

IBM

Personal Computer

This carton contains the following:

- Asynchronous Communications Adapter
- Problem Determination Procedures
- Diagnostics Diskette

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Installation Requirements

If your Guide to Operations manual has an edition date of August 1981 or April 1982 (this date can be found on the back of the title page of the manual), replace the Problem Determination Procedures with the new Problem Determination Procedures contained in this package. Replace the Diagnostics diskette with the new diskette from this package. Discard the old material.

- This option may be installed in either the system unit or expansion unit.
- Insert the Option Instructions in your Guide to Operations under the correct bleeder tab.

Tool Required

- Medium-size, flat-blade screwdriver

Optional:
- Medium screwstarter
- 3/16-inch nutdriver
- 1/4-inch nutdriver
Installation Instructions

1. Set the Power switch on the system unit (and expansion unit, if attached) to Off.

2. Set all external power switches Off (printer, TV, etc.).

3. Unplug the system unit's (and expansion unit's) power cord from the wall outlet.

4. Disconnect all cables from the rear of the system unit.
5. Move your keyboard and all external options away from the work area.

6. Position the system unit to allow access to the rear.

7. Use a flat-blade screwdriver or 1/4-inch nutdriver and remove the five cover mounting screws by turning them counterclockwise as shown in the figure below. Save the screws for the installation of the cover.

8. Carefully slide the system unit's cover away from the rear and to the front as indicated in the figure below. When the cover will go no further, tilt it up, remove it from the base, and set it aside.
9. Look at the inside left rear of your unit. There are five expansion slots. You can install your option in any unused slot.

Note: If this is the first asynchronous communications adapter to be installed in your system, go to Step 12 now.

11. The figure below shows the pluggable address module on the asynchronous communications adapter. On the second asynchronous communications adapter to be installed in your system, remove the pluggable address module and reinsert it in the position shown for "Alternate Asynchronous Adapter." Then go to Step 12.

10. Use a flat-blade screwdriver or a 3/16-inch nutdriver and remove the screw that holds the expansion slot cover in place by turning the screw counterclockwise. Save the screw for the installation of the option.
12. Possible interfaces for the asynchronous communications adapter are the current-loop and RS232-C. Position the pluggable module for the interface that suits your application as shown in the following figure.

![Diagram of a pluggable module with labels: Top, Retainer Screw Slot, Front, Pluggable Module, Option Retaining Bracket, 25-Pin Connector, Module Position for Current-Loop Interface, Module Position for RS232-C Interface.]

**Note:** The pluggable module may have a dust cover. Simply lift to remove.

13. Hold the option by the top and firmly press it into the expansion slot as shown below.

![Diagram of a hand inserting an option into an expansion slot with labels: 3, 4, 5, Rear Panel.]

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14. Align the slot in the option retaining bracket with the hole in the rear panel of the system unit. Start the screw clockwise, then tighten with a flat-blade screwdriver or 3/16-inch nutdriver.

15. If you have any other options to install in the system unit, do so now before putting the cover back on. Put the system unit's cover on by positioning it as shown and carefully sliding it toward the rear of the unit.
16. When the cover is all the way to the rear, align the screw with the threaded tabs and tighten. Use a flat-blade screwdriver or 1/4-inch nutdriver and turn clockwise.

17. Your system is now ready to be recabled and to verify that it is operational:

Go to Section 2, "Setup."

**Note:** If you have any problem after installation, one of the following is the most likely cause:

- Asynchronous Communications Adapter
- Improper cabling
- Other options may have loosened

**Note:** When performing tests or diagnostics, disconnect any external devices that may be connected to your asynchronous communications adapter.
## Connector Information

![Rear View of Connector](image)

### 25-Pin Connector

<table>
<thead>
<tr>
<th>Signal Name - Description</th>
<th>Pin</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC</td>
<td>1</td>
</tr>
<tr>
<td>Transmitted Data</td>
<td>2</td>
</tr>
<tr>
<td>Received Data</td>
<td>3</td>
</tr>
<tr>
<td>Request to Send</td>
<td>4</td>
</tr>
<tr>
<td>Clear to Send</td>
<td>5</td>
</tr>
<tr>
<td>Data Set Ready</td>
<td>6</td>
</tr>
<tr>
<td>Signal Ground</td>
<td>7</td>
</tr>
<tr>
<td>Received Line Signal Detector</td>
<td>8</td>
</tr>
<tr>
<td>+ Transmit Current Loop Return</td>
<td>9</td>
</tr>
<tr>
<td>NC</td>
<td>10</td>
</tr>
<tr>
<td>- Transmit Current Loop Data</td>
<td>11</td>
</tr>
<tr>
<td>NC</td>
<td>12</td>
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<tr>
<td>NC</td>
<td>13</td>
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<td>NC</td>
<td>15</td>
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<tr>
<td>NC</td>
<td>16</td>
</tr>
<tr>
<td>NC</td>
<td>17</td>
</tr>
<tr>
<td>+ Receive Current Loop Data</td>
<td>18</td>
</tr>
<tr>
<td>NC</td>
<td>19</td>
</tr>
<tr>
<td>Data Terminal Ready</td>
<td>20</td>
</tr>
<tr>
<td>NC</td>
<td>21</td>
</tr>
<tr>
<td>Ring Indicator</td>
<td>22</td>
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<tr>
<td>NC</td>
<td>23</td>
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<tr>
<td>NC</td>
<td>24</td>
</tr>
<tr>
<td>- Receive Current Loop Return</td>
<td>25</td>
</tr>
</tbody>
</table>

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