Build two eyes (left eye and right eye) for your Lego vehicle. Each eye shown below constructed as shown below in figure 1. You may build your eyes on a piece of a circuit board or you may solder the wires together and mount the phototransistors on a Lego block. The eyes will be connected to the analog to digital converter chip by plugging in the connector supplied into a row of three pins on the a/d input. Figure 2 shows how to identify the leads of the phototransistor.

To test your eyes, create a c-51 project using the code shown below. Be sure to add robotics3.c to your source group.

```c
#include <robotics3.h>
void main(void)
{
    AllStop();
    while (1)
    {
        if (GetAtoD(0)>GetAtoD(1)+50)
        {
            Beep(1);
        }
        if (GetAtoD(1)>GetAtoD(0)+50)
        {
            Beep(2);
        }
        Delay(5);
    }
}
```