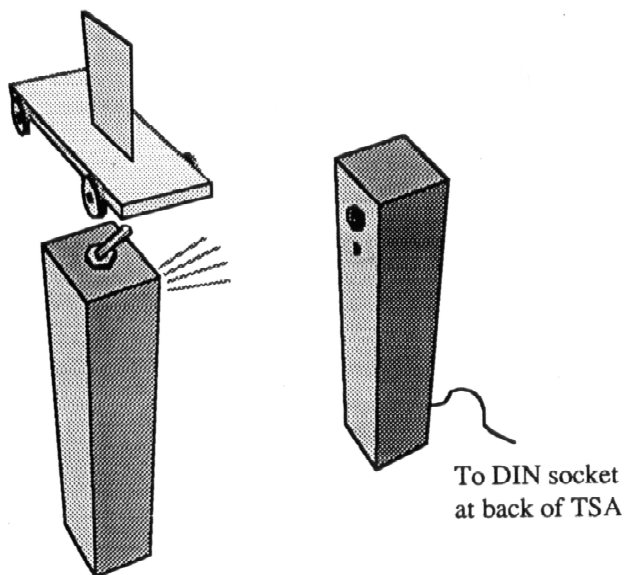


Technical Notes IR Light Gate



- Connect the DIN plug to either DIN socket on the TSA/ALBA unit.
- Switch on the TSA/ALBA unit
- Switch on the infrared Light Gate source and adjust its position until the green LED is on.
- The two units are now properly aligned.
- Cutting the beam toggles red LED on TSA/ALBA and also the green LED on the IR Source.
- Adjust the spacing between the two units to give the desired gap.

Note that when measuring the acceleration due to gravity that the units can be placed on their side and overhanging the edge of a table. This would then allow a mask to be dropped vertically through the gap.

To obtain gaps larger than 50cm use a torch which emits a lot of IR and that has a beam which can be focussed (not an LED torch).

Remember to switch the Light Gate Source off when finished.

To replace the batteries in the Light Gate Source unscrew the 4 small screws on the rear and replace the 2 AA batteries. Long life, non leakage batteries are recommended.

With age and use your light gate sensitivity may need adjusted. This would manifest itself as the green LED staying permanently on. Remove the 4 small screws on the rear and connect to TSA/ALBA. Using a small screw driver turn the slot on the potentiometer anticlockwise until the LED stays off.