**EC-6 Checklist**

On each table, check the presence of

White plastic board with 2 permanent magnets

Compass

2 magnetic field finders

Clear plastic sheet

Transparency and water-based marker pen

Magnetic field sensor

PASCO interface

Permanent magnet with gap in between

6 Circuit boards with copper strips of different shapes.

Stand for holding copper strap in place

Adjustable E/M power supply

Triple beam balance.

In the lab room, check the presence of

A Gauss-meter set

Power cables

Banana cables

Rulers

On each table, check for functionality

The compass is intact and functional.

The permanent magnets on the white plastic board can be rotated.

The iron bars in the magnetic field finders align themselves correctly to the fields of the permanent magnets on the plastic board

The magnetic field sensor functions appropriately

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| -- | -- | -- | -- | -- | -- | -- | -- | -- |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| -- | -- | -- | -- | -- | -- | -- | -- | -- |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

The E/M power supply can turn on and its field can be adjusted to 2.9 Amperes

The circuit boards can be held securely by the stand

The copper tracks on the circuit boards are intact. This can be thoroughly checked using a DMM.

In the lab room, check for functionality

The Gauss meter functions satisfactorily. It can be used to measure the magnetic field between the poles of the permanent magnet used in part 2. The field should be approximately 0.5 kilo gauss.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| -- | -- | -- | -- | -- | -- | -- | -- | -- |
|  |  |  |  |  |  |  |  |  |