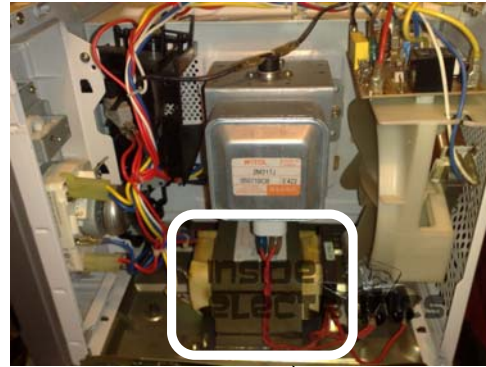


Information Hiding

- Information hiding restricts direct exposure of data so that data can be accessed in safe mechanisms.
 - Also called encapsulation.



Power
module

1

Information Hiding

```
class A{
public:
    //data and functions needed by clients (public interface).
protected:
    //data and functions needed by derived classes.
private:
    //data and function needed by class A only.
};
```

- **Why private?**
 - Client programs do not need them. Only for implementation.
 - They are subject to future change.
 - For private data, client programs may misuse them and cause inconsistency
- **Why protected?**
 - Needed by derived classes. Derived classes are trusted, but client programs are not.

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