

# **Freight Train #2**

## **(Forklift)**

# Freight Train #2 (Forklift)

Set #60336



## Module Description

When the freight train stops at the station, the forklift will unload the cargo, drive to the other station, and load it onto the freight train at the next time when it stops at that station.



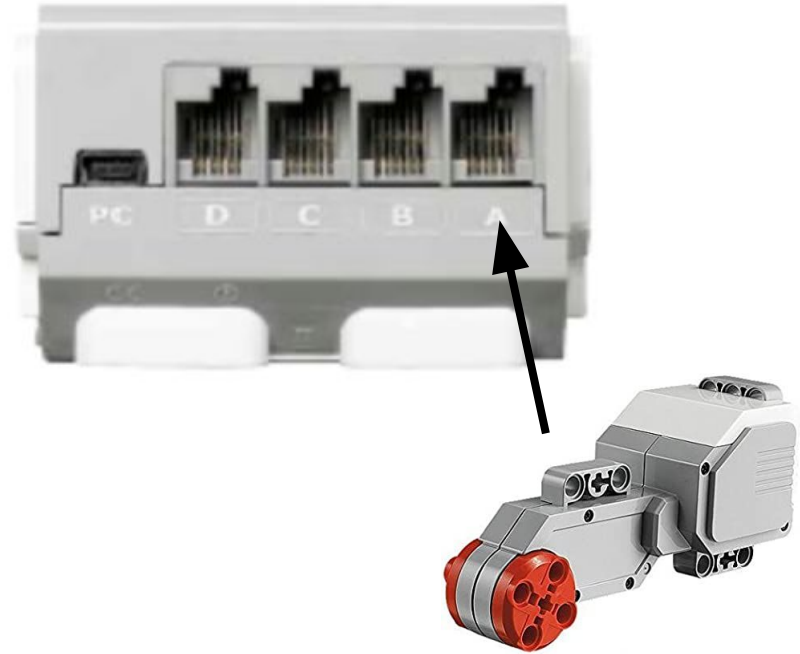
# Requirements

The forklift will use two motors: one to load and unload cargo from the freight train, and one to move the forklift from station to station. One distance sensor to identify the freight train.



## Ports

The forklift will require three output port on an EV3 hub to connect 2 motors and one sensor.



# Variables/Settings

Train in station: on or off. On if the train in the station, off if it is not.

Holding cargo (forklift): on or off. On if it is holding cargo, off if it is not.

```
1 {  
2   "status" : "on",  
3   "interval", 10  
4 }
```

# IOT Loop

Train not moving:

While true

If (Train != moving && Forklift != loaded) {

Motor speed = 10

Approach the train

Motor speed = 0

Pick up the package

Drive to station\_2

}

Else if (Train != moving && Forklift == loaded) {

Motor speed = 10

Approach the train

Motor speed = 0

Unload the package

Drive to station\_1

}

