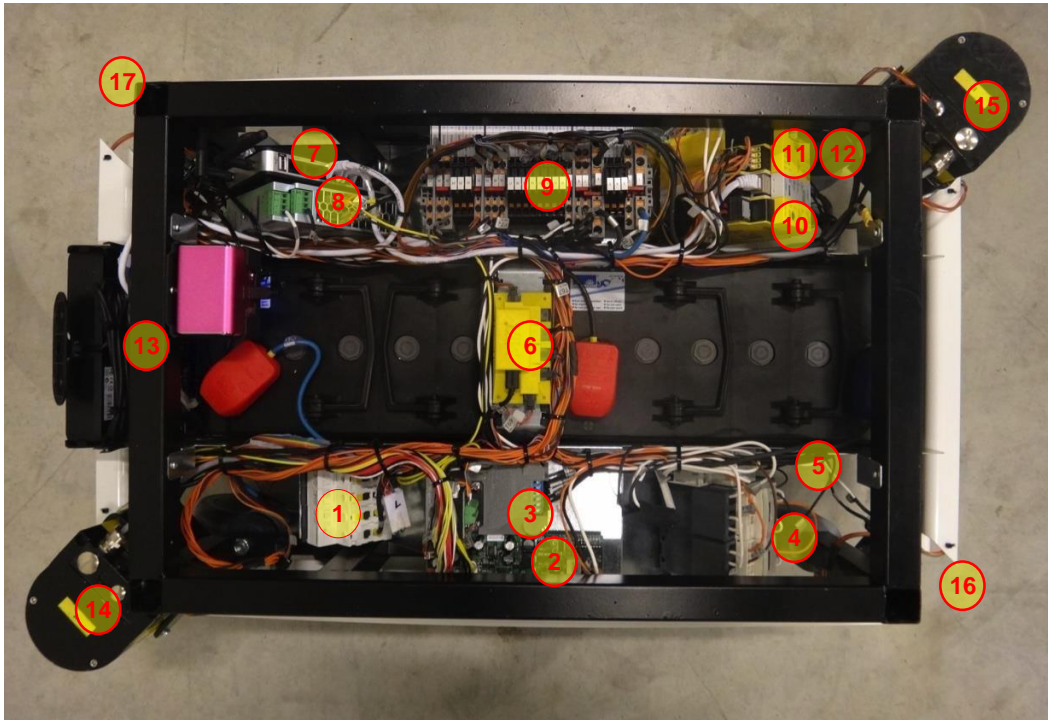


Robotin sisältö:



| # | Component                | Description   | #  | Component            | Description  |
|---|--------------------------|---|----|----------------------|--|
| 1 | Breaker                  | Automatic fuse between batteries and components.                  | 10 | SICK safety modules  | Communication between sensor signals and control of the vehicle.         |
| 2 | ATX Power Supply Voltage | Voltage to the motherboard, IMU, router.                          | 11 | Control relay        | Relay Switches on 24/24 V power supply via the rotary knob.              |
| 3 | Motor controller         | Manages the two motor drives.                                     | 12 | Optocoupler          | Communications for emergency stop.                                       |
| 4 | Redundant drive          | Relays controlled by SICK modules supplying the motor controller. | 13 | Motherboard          | The main computer which performs all calculations and control of vehicle |
| 5 | Brake relay              | Ensures immediate power cutoff in the case of power outage.       | 14 | SICK laser scanner 1 | Scans the environment for people and other obstacles.                    |

|   |  |  |    |                      |   |
|---|--|--|----|----------------------|---|
| 6 | IMU board                              | IMU board Interface for gyroscope, accelerometer, ultrasound, light and, navigation. | 15 | SICK laser scanner 2 | Rear laser scanner.   |
| 7 | Router                                 | Local network.   | 16 | Charge port.         | Battery charger port. When the charger is connected; emergency stop is activated. |
| 8 | Quint 24/24 V switch mode power supply | Provides safety components. Ensures stable voltage.                                  | 17 | Start/Stop           | On/Off Button Controls battery power.   |
| 9 | Security Group /switches               | Plug connections to chassis and supplies.  |    |                      |   |

Robotin valomerkit ja niiden tarkoitus:

Punainen: hätäpysäytys

Vihreä: odottaa käskyä

Turkoosi: ajaa kohteeseen

Violetti: virhe-koodi ajoreittiin

Keltainen ja violetti vilkku: sutii määrällä alustalla

Sininen: manuaalijäjo-ohjaustikku

Keltainen ja oranssi himmennys: käynnistys signaali ennen kuin tietokone on aktiivinen.