

OLA ELECTRIC SCOOTER STATE TRANSITIONS

STATES :

- PARK MODE
- RIDE MODE

EVENTS :

- WHEN SIDE STAND IS REMOVED
- WHEN SIDE STAND IS PARKED
- WHEN HMI SCREEN IS SWITCHED ON
- WHEN HMI SCREEN IS SWITCHED OFF
- WHEN POWER BUTTON IS SWITCHED ON
- WHEN POWER BUTTON IS SWITCHED OFF
- WHEN MUSIC IS PLAYING

State Dependent Behaviors:

WHEN SIDE STAND IS REMOVED:

- If currently in ride mode:
 - => Does nothing, remains in ride mode.
- If currently in park mode:
 - => HMI (Human-Machine Interface) lock screen pops up.

WHEN SIDE STAND IS PARKED:

- If currently in park mode:
 - => Does nothing, remains in park mode.
- If currently in ride mode:
 - => Transitions to park mode, possibly engaging the lock screen and/or shutting down the scooter to prevent riding.

WHEN POWER BUTTON IS PRESSED:

- If currently in park mode and stand is removed:
 - => Transitions to 'on' state, ready for ride mode.
- If currently in ride mode:
 - => Transitions to park mode, engaging side stand might be necessary.

WHEN MUSIC IS ACTIVATED:

- If currently in park mode:
 - => Music plays and colored lights start to blink.
- If currently in ride mode:
 - => Music does not activate to maintain focus on riding and safety.

WHEN MUSIC STOPS PLAYING:

- If music was playing in park mode:
 - => Colored lights stop blinking, and the scooter remains in park mode.

WHEN POWER BUTTON IS PRESSED AGAIN:

- If the scooter was in 'on' state:
 - => Transitions back to park mode.

WHEN SCOOTER IS ENGAGED TO RIDE :

- If currently in 'on' state with stand removed:
 - => Transitions to ride mode, ready to be driven.

WHEN SCOOTER IS PARKED AFTER RIDING:

- If the ride ends and the scooter is parked :
 - => Transitions to park mode.

State transition diagram



