



F28-SC

product manual

V1.1

steering wheel for racing simulators

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1. general information

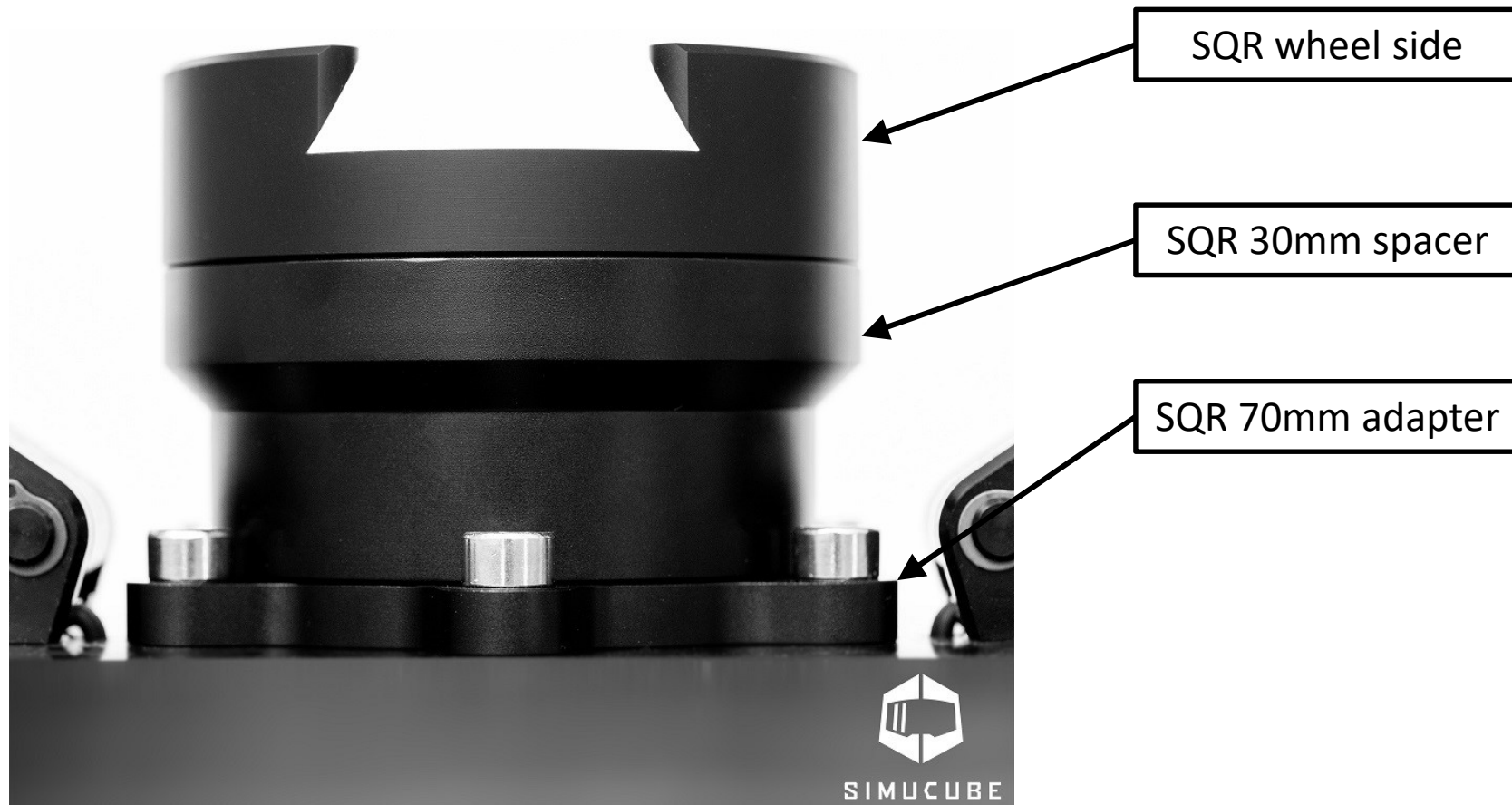
- wireless formula steering wheel for Simucube 1 & 2
- 285mm diameter
- mass: 1000 g
- 3,6 V lithium battery (ER 14250)
- standard 6 x 70mm bolt pattern (M5 threaded) to mount quick release
- 28 inputs in total
- grips covered in original ALCANTARA®
- do not apply excessive force on the antenna; handle with care (e.g. laying wheel on a table)

- package contents:
 - F28-SC steering wheel
 - alternative magnets & spacers for paddle shifters (**see foam insert**)
 - bolts and washers to mount standard Quick Release (such as Q1R)
 - button labels sheets (black and white)

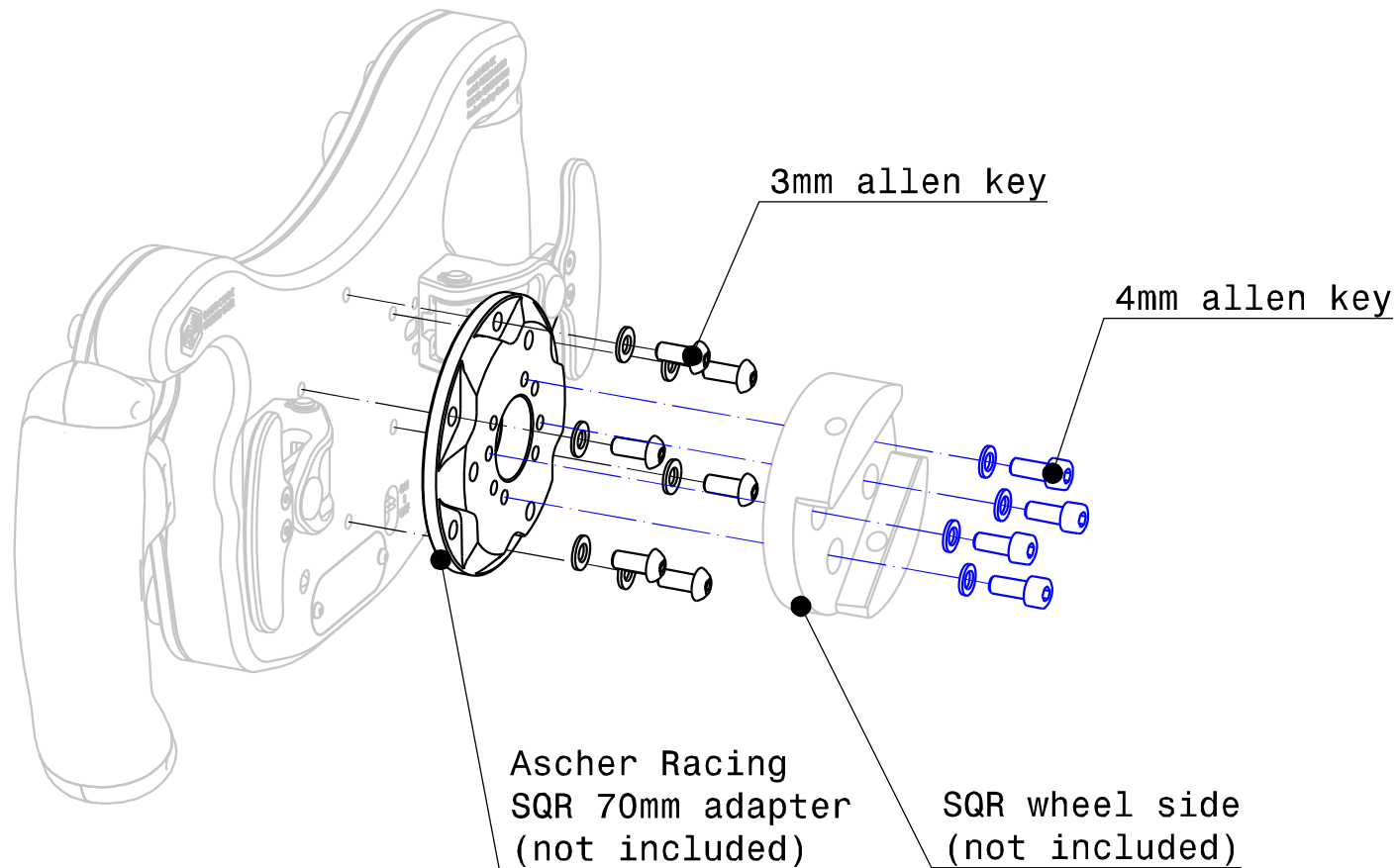
2. Quick Release mounting

1. SQR wheel side via standard SC2 adapters
2. SQR wheel side via *Ascher Racing SQR 70mm Adapter*
3. Q1R 70mm wheel side
4. QRs with M5 threads

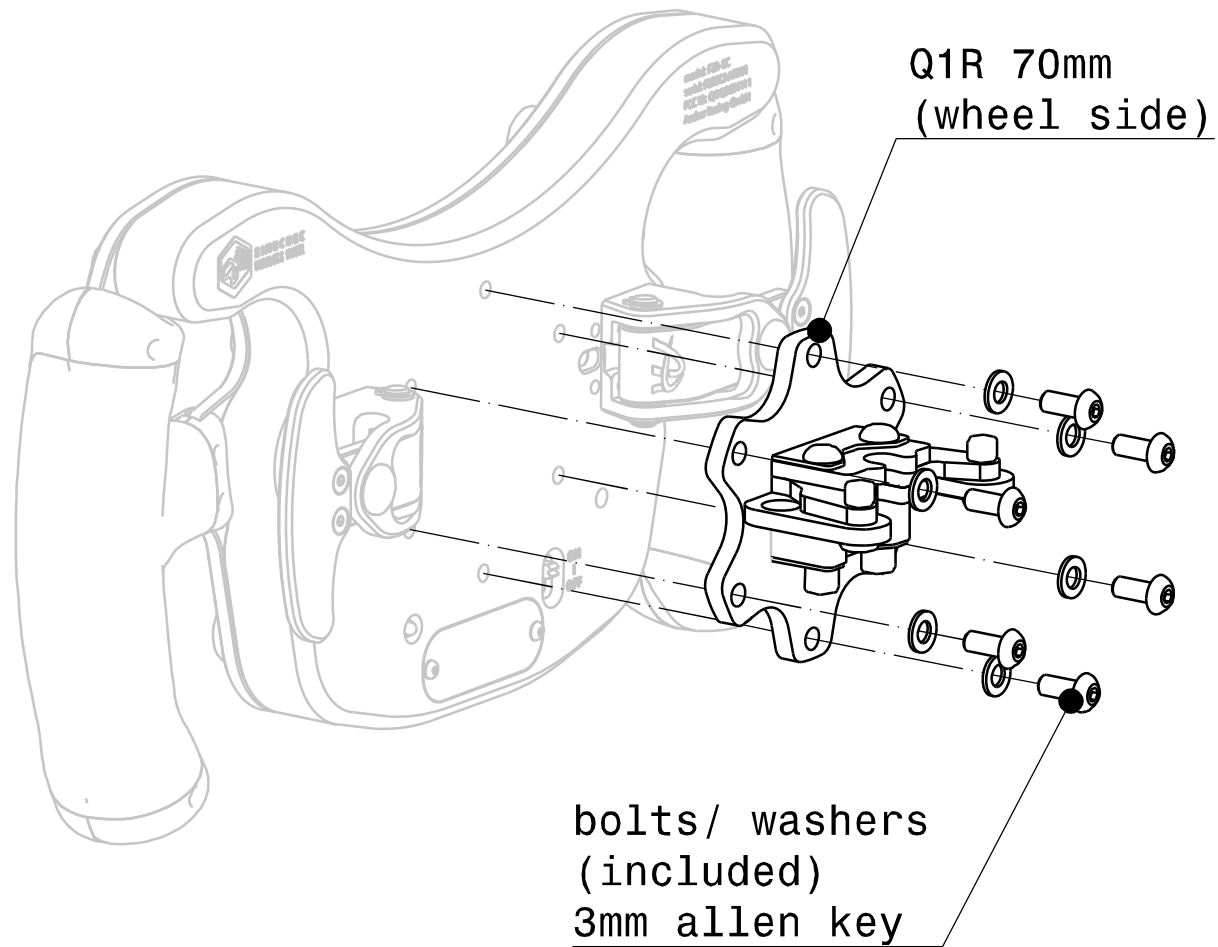
2.1 SQR wheel side via standard SC2 adapters



2.2 SQR wheel side via *Ascher Racing SQR 70mm Adapter*



2.3 Q1R 70mm wheel side



2.4 QRs with M5 threads

- not as straight forward as previous QRs due to both parts being M5 threaded
- M5 threads of one part need to be bypassed using captive screws
- through hole M5 threaded QRs (e.g. HRS Xero Play QR) → bypass the QR part
- blind hole M5 threaded QRs (e.g. NRG) → use captive screws from inside the wheel casing
 1. open wheel rim by removing 7 x front plate bolts (2.5mm allen key)
 2. screw in 5 x captive screws completely until threads do not intersect anymore
 3. attach QR by turning each bolt $\frac{1}{4}$ turn in a circular pattern
 4. attach front plate – make sure not to squeeze shifter cables

3. initial operation

- open *True Drive/ Simucube Configuration Tool* → go to *Simucube Wireless Wheels* tab
- set checkmark: *Connect automatically to paired devices*
- switch on steering wheel (ON-OFF switch on the rear side)
- double click *Ascher Racing F28*
- wheel is now paired, connected and shows up in the *Overview* tab
- check connection signal quality (*Overview* tab) for a full rotation of the steering wheel
- signal quality must be above 20% at all times for perfect operation

4. general operation

- when switched ON, the wheel will go into discovery mode for 30s (blinking LED)
- if Simucube is switched on, it connects automatically and shows up in the *Overview* tab
- LED will indicate successful connection by blinking three times
- SC2 will indicate connection/ disconnection by an audible beep (if checked in the *Hardware Settings* tab)

- alternative connection:
 - pull both paddle shifters simultaneously to connect immediately
 - pull both paddle shifters simultaneously for 5s to disconnect

- **after driving** session, it is recommended to **switch-off/ disconnect the wheel** to avoid constant battery drain in specific circumstances when a connection to SC is active
- expected battery life of 2 - 3 years on heavy daily usage
- low battery voltage: *True Drive* will show a warning message, SC2 will play an audible beep
- remaining energy will still last for many days to have time for replacing the battery

- to swap batteries, open access window on the rear side (1.5mm allen key required)

5. button label application

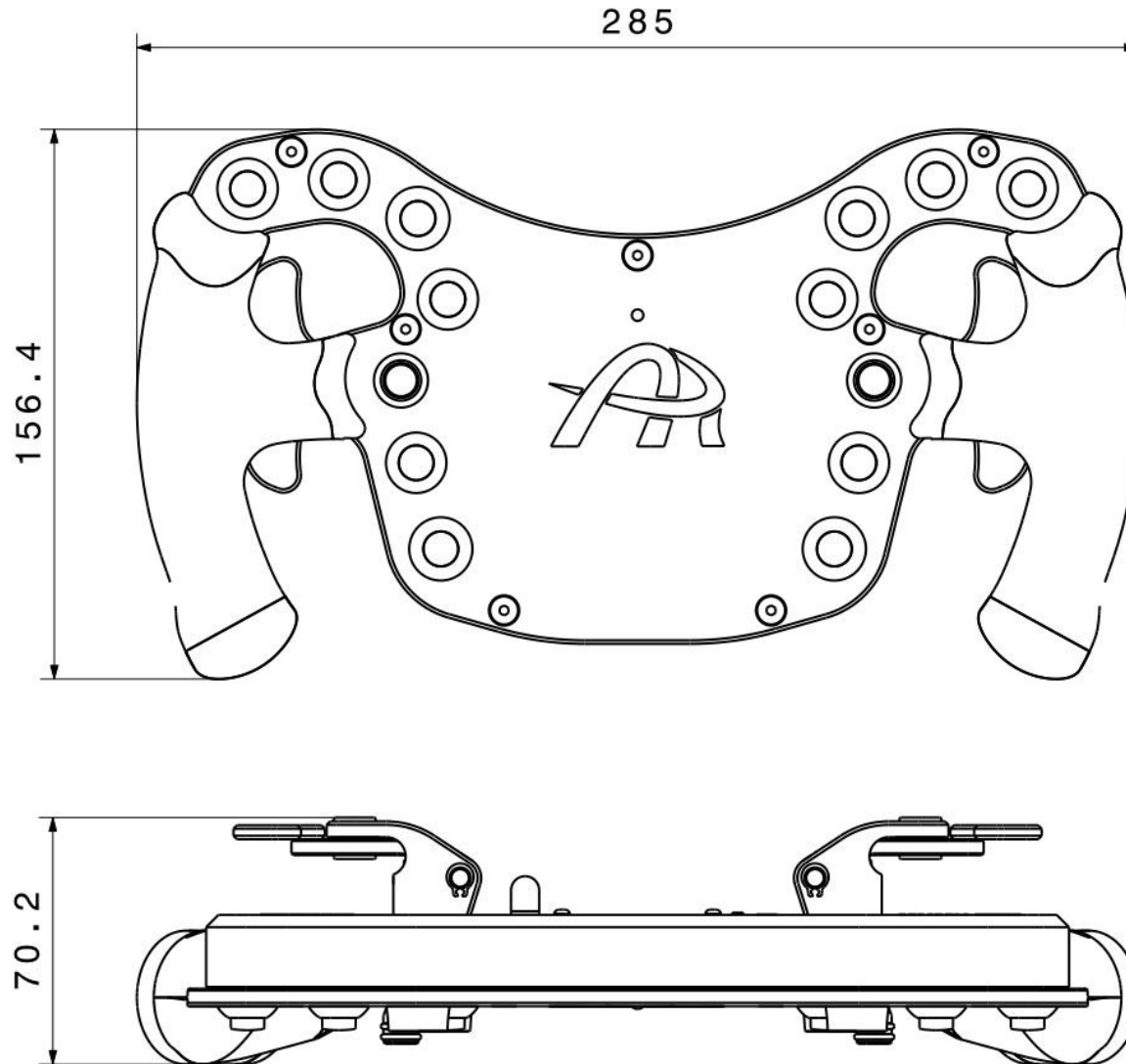
- to apply button labels the easiest way use a tool such as a knife
- put the label on the very tip of the knife
- position is centered and horizontal
- press the label on the surface

6. paddle shifter force setting

- paddle shifter snap action force is set by the combination of magnets and spacers
- do not let magnets smash into each other – magnets are very brittle and can break
- to pull out installed magnets, put additional magnets carefully on top
- press the paddle shifter to separate installed magnets
- pull out top and bottom magnet
- magnets can be separated the best by shearing them off

- 4 pcs 3mm **magnets & spacers** can be found in the **packaging foam insert**
- approx. actuation force depending on magnet height and spacers:
 1. 800g = 5mm + 5mm (factory default)
 2. 570g = 5mm + 5mm + 1 spacer
 3. 480g = 3mm + 3mm
 4. 440g = 5mm + 5mm + 2 spacers
 5. 340g = 3mm + 3mm + 1 spacer
 6. 260g = 3mm + 3mm + 2 spacers

7. dimensions



8. wiring schematic

