



Control System Overview

A1.1.00

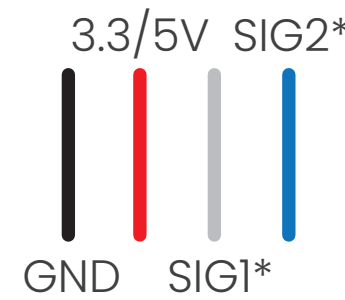
Power

12VDC Main



Data

22 AWG Minimum



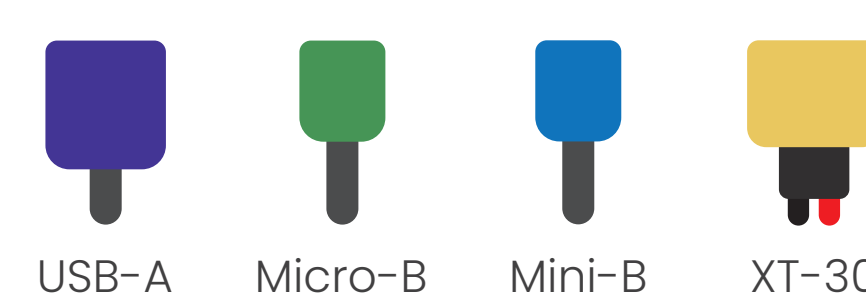
Wire Gauge

Minimum Gauge per connection shown



I/O

Connector Interfaces



* SIG1 and SIG2 are utilized differently depending on the communication protocol used in a specific connection.
Learn more about each protocol's pinouts and the FTC control system at:
ftc-docs.firstinspires.org

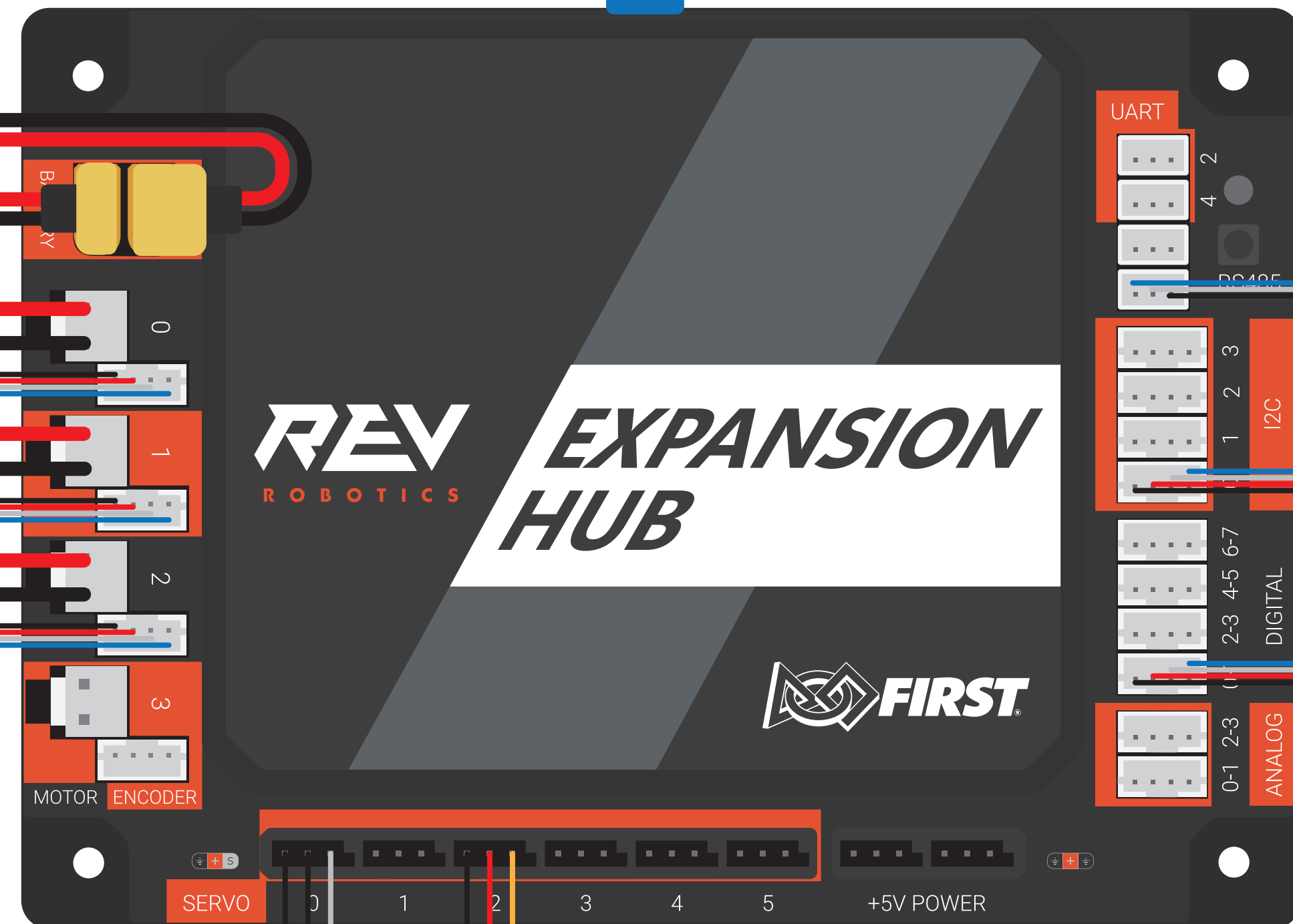
Keep in Mind

A1 - Baseline Configuration - Basic

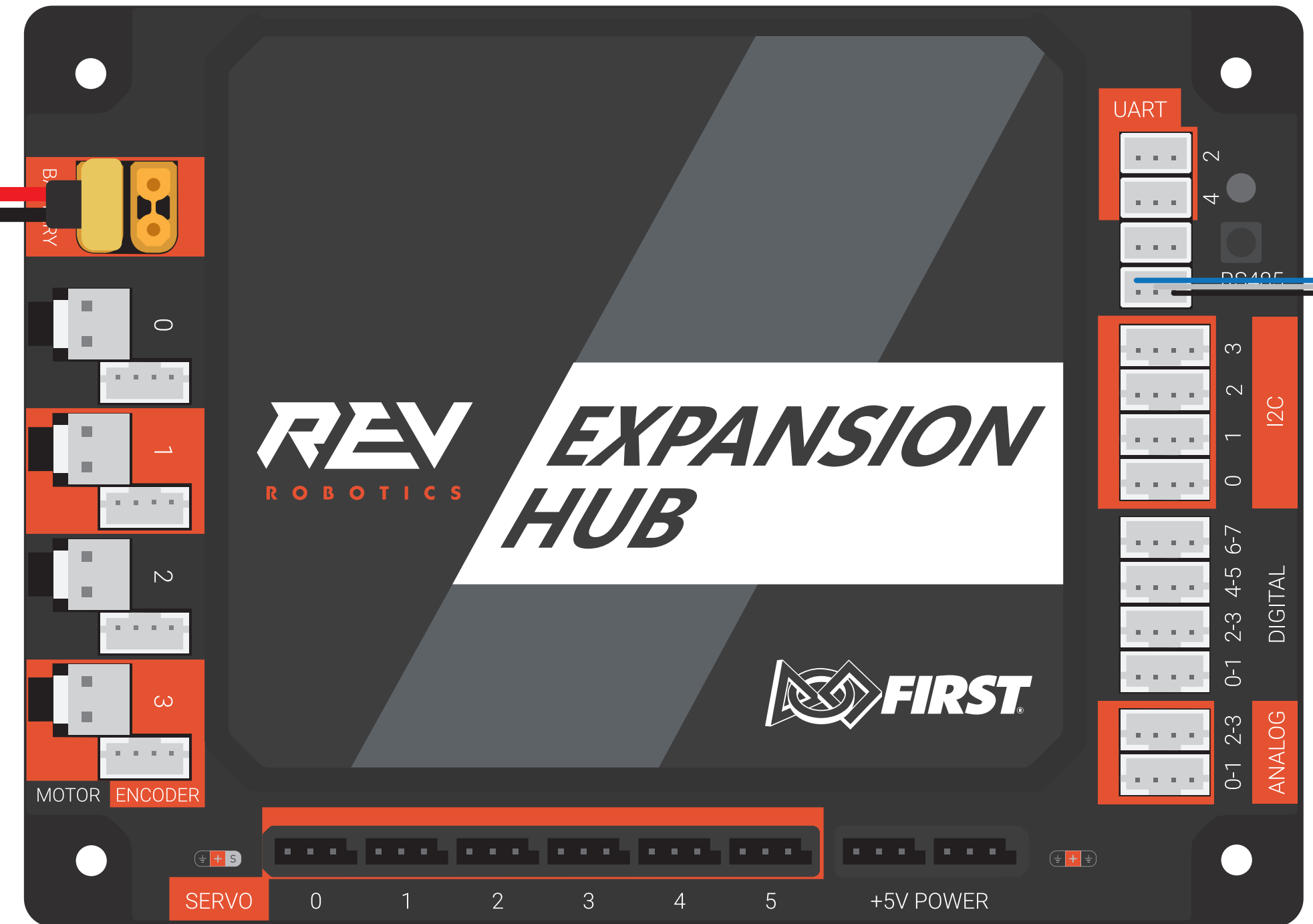


FTC-Legal Android Phone
Motorola E5 Play shown
Running FTC Robot Controller App
Vision uses rear camera

Primary REV Expansion Hub



Auxiliary REV Expansion Hub (Optional)

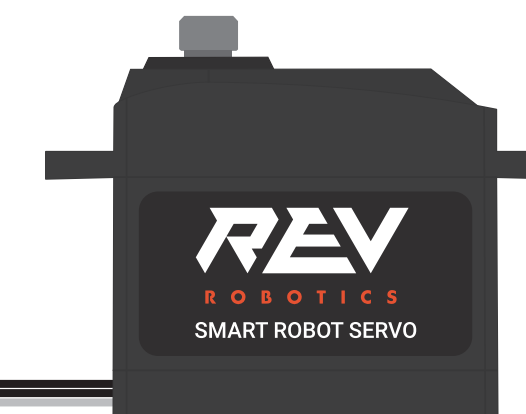


Robot Battery
REV-31-1302 shown
20A ATM Fuse Installed

Power Switch
Must be labeled
REV-31-1387 shown



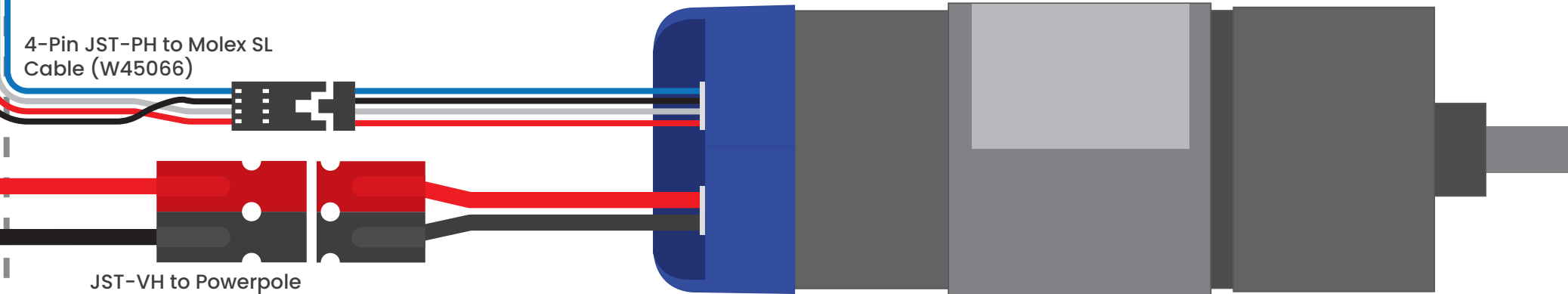
REV HD Hex Motor
2 Stage Ultr planetary Configuration shown



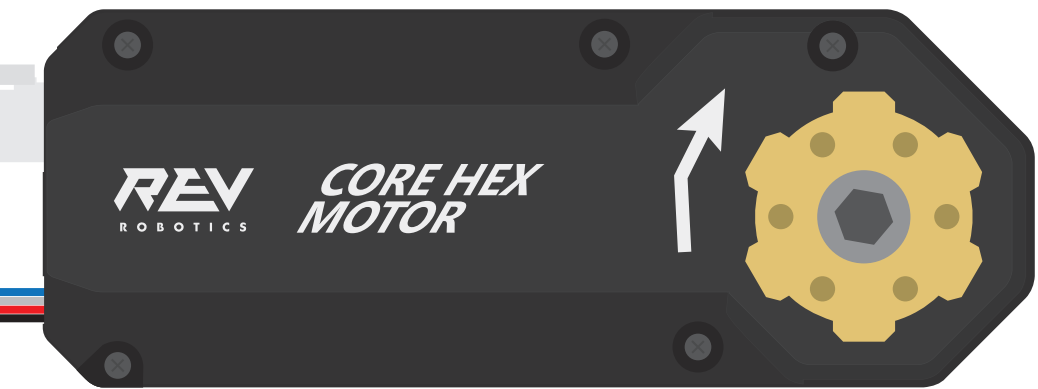
REV Smart Robot Servo
Configure with SRS Programmer



TETRIX® Servo
Standard scale version shown



TETRIX® MAX TorqueNADO® Motor
REV JST-PH sensor cables are incompatible with this motor
Use supplied sensor cable



REV Core Hex Motor
REV-41-1300

Power

Motors