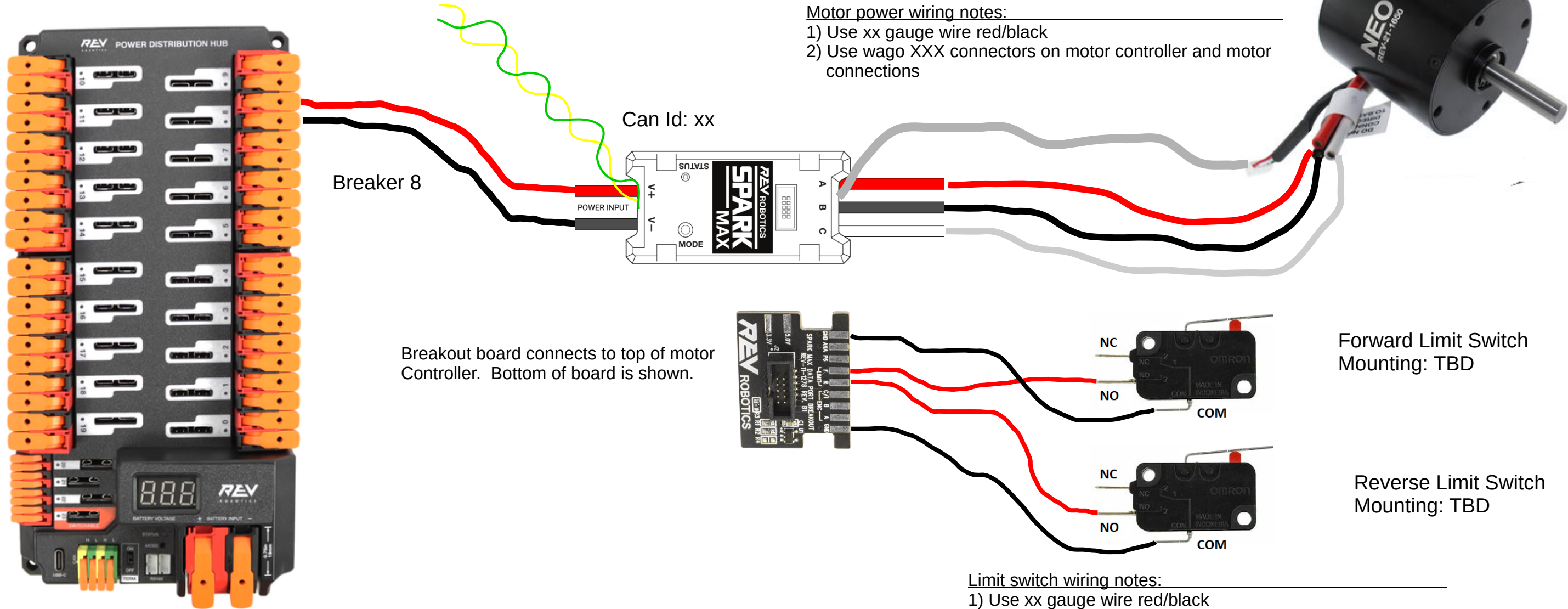


Can bus wiring notes:
1) See drawing FRC4150-2024-0020 for complete CAN bus Wiring.
2) Use wago XXX connectors to connect CAN bus.
3) Only one of the two pairs of CAN bus wires is shown.
4) Spark Max requires a special connector on the motor Controller side of the CAN bus.


Motor encoder wiring notes:
1) Distance to motor is limited by special connector needed on Wiring cable.

Motor power wiring notes:
1) Use xx gauge wire red/black
2) Use wago XXX connectors on motor controller and motor connections



Motor controller power wiring notes:
1) Use xx gauge wire red/black
2) Use wago XXX connectors on motor controller

Limit switch wiring notes:
1) Use xx gauge wire red/black
2) Use NO and COM connections as shown
3) Use crimp lug connector. Size is determined by wire gauge.
4) Solder wire to Spark Max breakout board.

2) Use wago XXX connectors on motor controller												Drawn by		<div>FRobotics – Team 4150</div> <div>2024 Competition Robot> Arm System Electrical Schematic</div>					
												ABC							
												Reviewed by							
												DEF							
										A	01/18/2024	Date		Drawing number FRC2024-0001				Rev A	
								JAS – Original.				01/18/2024							