

Top Level

F5 Control speed

C5a Drum brake

C5b Spike

C5c Disk brakes

C5d Drag based brakes

C5e Electric brake system

Sub-Functions (C5a)

sF5 Apply pressure to wheels

sC1a Servo

sC1b Hydraulics

sC1c Pneumatics

Sub-Functions (C5b)

sF5 Force spike into ground

sC1a Servo motor

sC1b Heavy spike with release latch

sC1c Shoot spike into ground

sC1d Hydraulics

sC1e Pneumatics

Sub-Functions (C5c)

sF5 Apply pressure to wheels

sC1a Servo

sC1b Hydraulics

sC1c Pneumatics

sC1d Electromagnets

Sub-Functions (C5d)

sF5 Increase drag coefficient

sC1a Flip panels outward

sC1b Parachute

Sub-Functions (C5e)

sF5 Transform kinetic energy of motor to electrical/heat energy

sC1a Connect motor to storage battery/capacitor (regen braking)

sC1b Connect motor to resistor (dynamic braking)

sC1c Connect motor to power source in reverse (plug braking)