TRUTH TABLE						
ENABLE INPUT	SELECT INPUTS			ON SWITCHES		
	C	B	A	DG4051E	DG4052E	DG4053E
H	X	X	X	All switches open	All switches open	All switches open
L	L	L	L	X to X0	X to X0, Y to Y0	X to X0, Y to Y0, Z to Z0
L	L	L	H	X to X1	X to X1, Y to Y1	X to X1, Y to Y0, Z to Z0
L	L	H	L	X to X2	X to X2, Y to Y2	X to X0, Y to Y1, Z to Z0
L	L	H	H	X to X3	X to X3, Y to Y3	X to X1, Y to Y1, Z to Z0
L	H	L	L	X to X4	X to X0, Y to Y0	X to X0, Y to Y0, Z to Z1
L	H	L	H	X to X5	X to X1, Y to Y1	X to X1, Y to Y0, Z to Z1
L	H	H	L	X to X6	X to X2, Y to Y2	X to X0, Y to Y1, Z to Z1
L	H	H	H	X to X7	X to X3, Y to Y3	X to X1, Y to Y1, Z to Z1

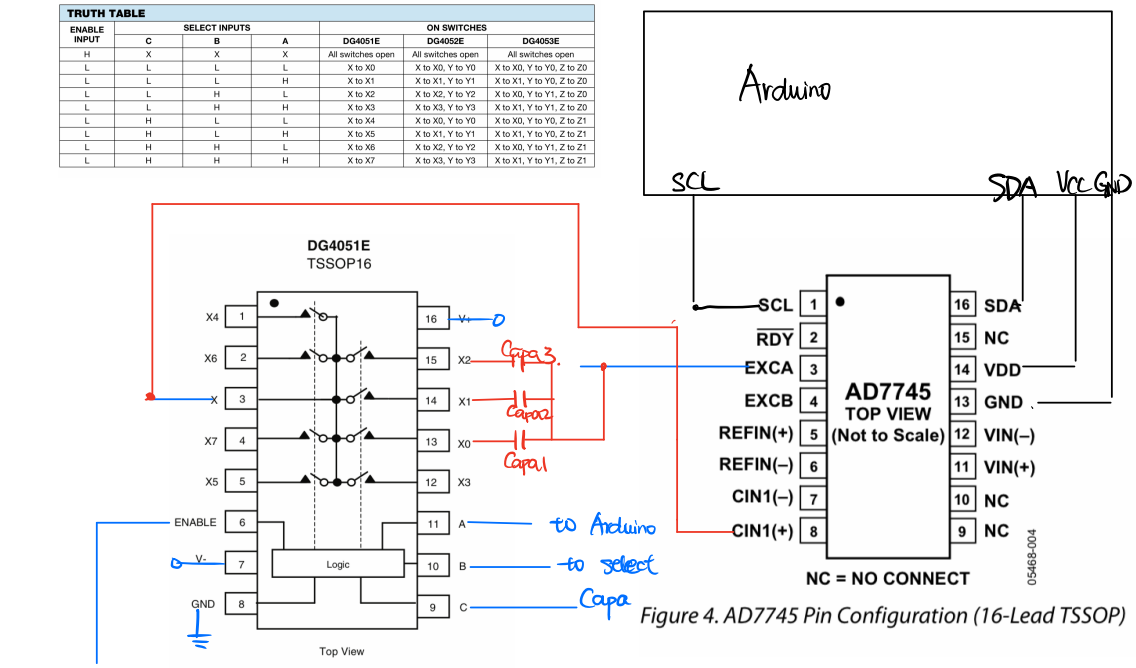

Figure 4. AD7745 Pin Configuration (16-Lead TSSOP)

CS

H : disable.

L : Enable.

V+ : Vcc +5V

Differential Capa

LC1 LC2 LC3

RC1 RC2 RC3

TRUTH TABLE						
ENABLE INPUT	SELECT INPUTS			ON SWITCHES		
	C	B	A	DG4051E	DG4052E	DG4053E
H	X	X	X	All switches open	All switches open	All switches open
L	L	L	L	X to X0	X to X0, Y to Y0	X to X0, Y to Y0, Z to Z0
L	L	L	H	X to X1	X to X1, Y to Y1	X to X1, Y to Y0, Z to Z0
L	L	H	L	X to X2	X to X2, Y to Y2	X to X0, Y to Y1, Z to Z0
L	L	H	H	X to X3	X to X3, Y to Y3	X to X1, Y to Y1, Z to Z0
L	H	L	L	X to X4	X to X0, Y to Y0	X to X0, Y to Y0, Z to Z1
L	H	L	H	X to X5	X to X1, Y to Y1	X to X1, Y to Y0, Z to Z1
L	H	H	L	X to X6	X to X2, Y to Y2	X to X0, Y to Y1, Z to Z1
L	H	H	H	X to X7	X to X3, Y to Y3	X to X1, Y to Y1, Z to Z1

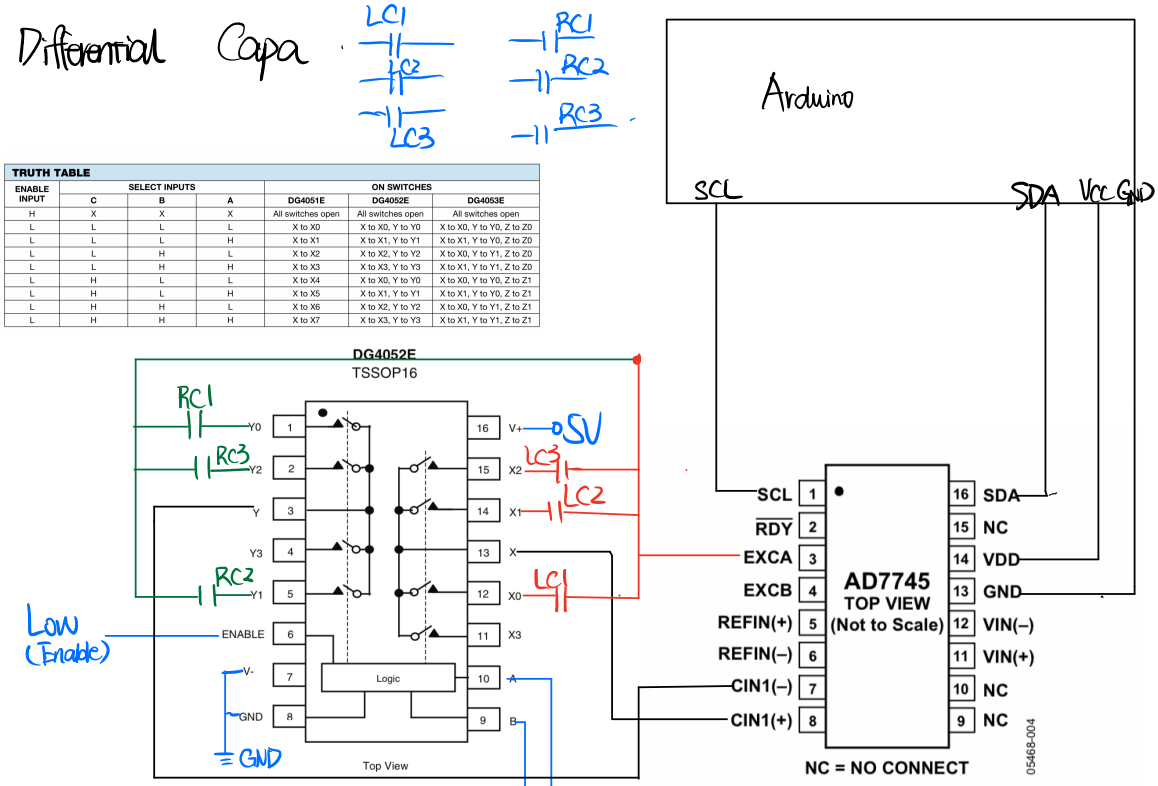

Figure 4. AD7745 Pin Configuration (16-Lead TSSOP)

Channel Select pin from Arduino

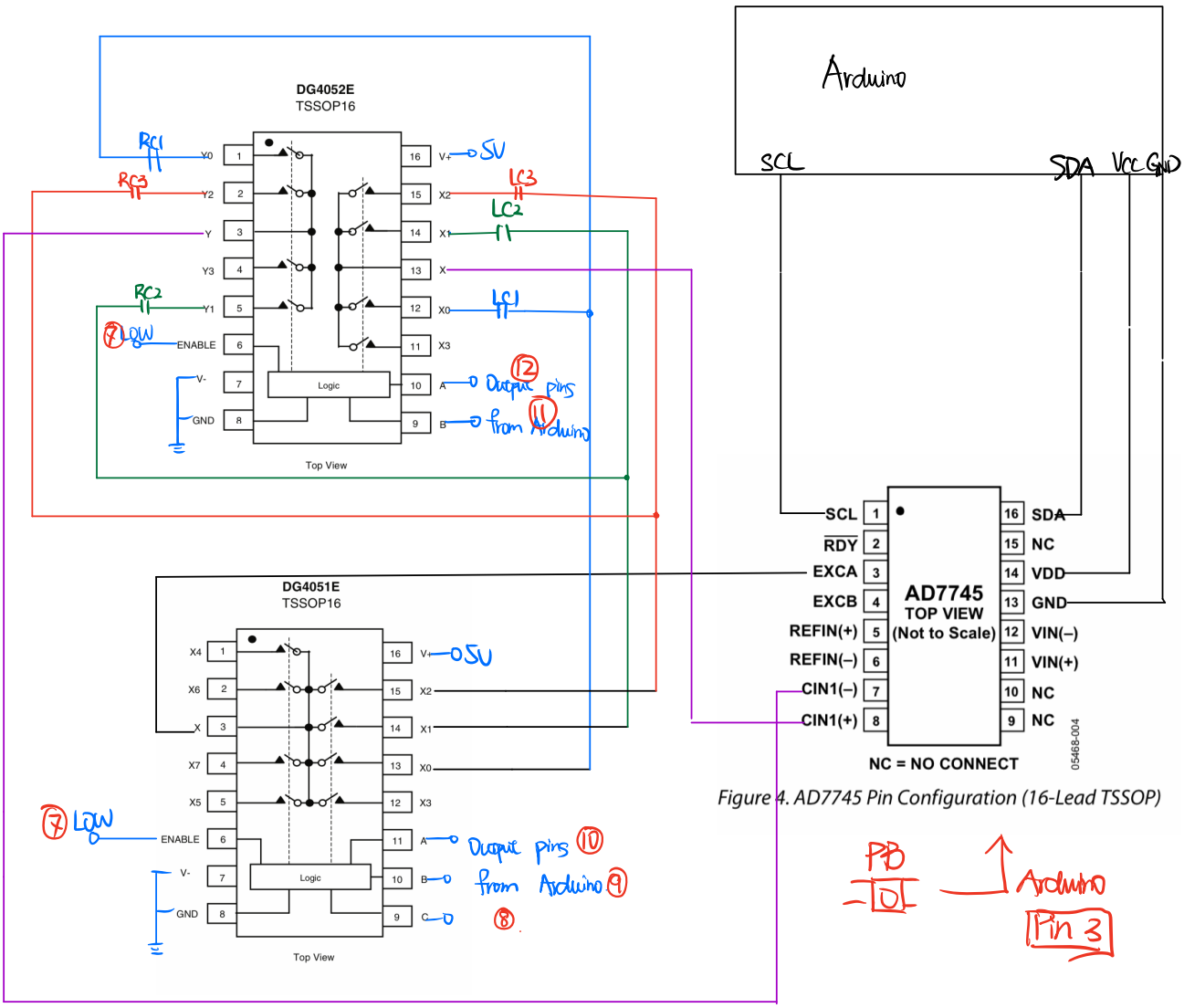

Figure 4. AD7745 Pin Configuration (16-Lead TSSOP)

AD7747 Design

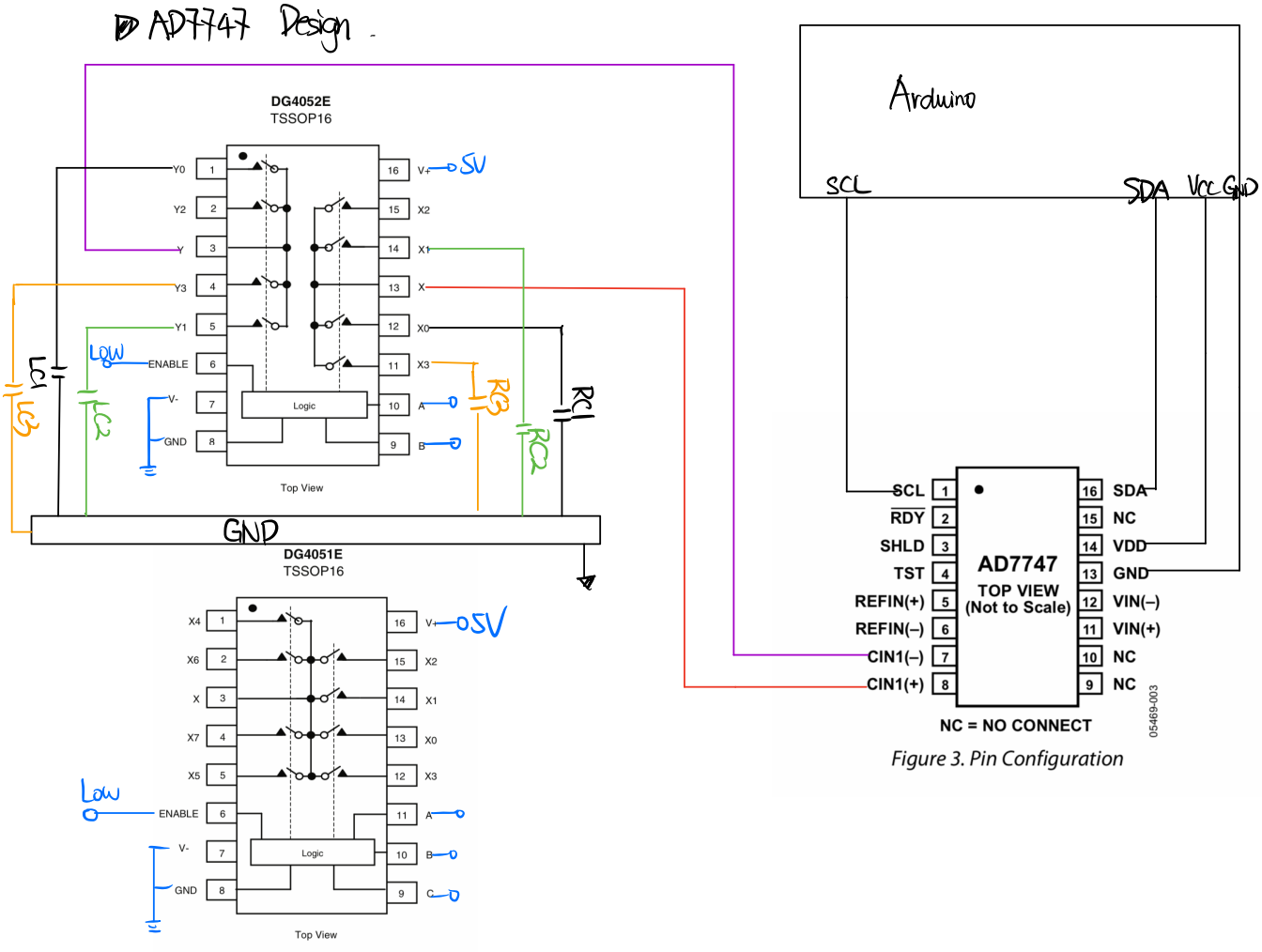

Figure 3. Pin Configuration

top mode: 4.57 ← 5.02 → 5.50

middle mode: 2.22 ← 3.16 → 4.10

---

top: 3.22 ← 3.85 → 4.31

mid: 1.73 ← 2.71 → 3.88