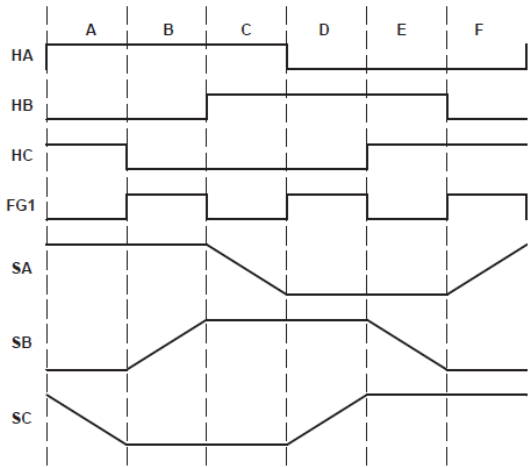
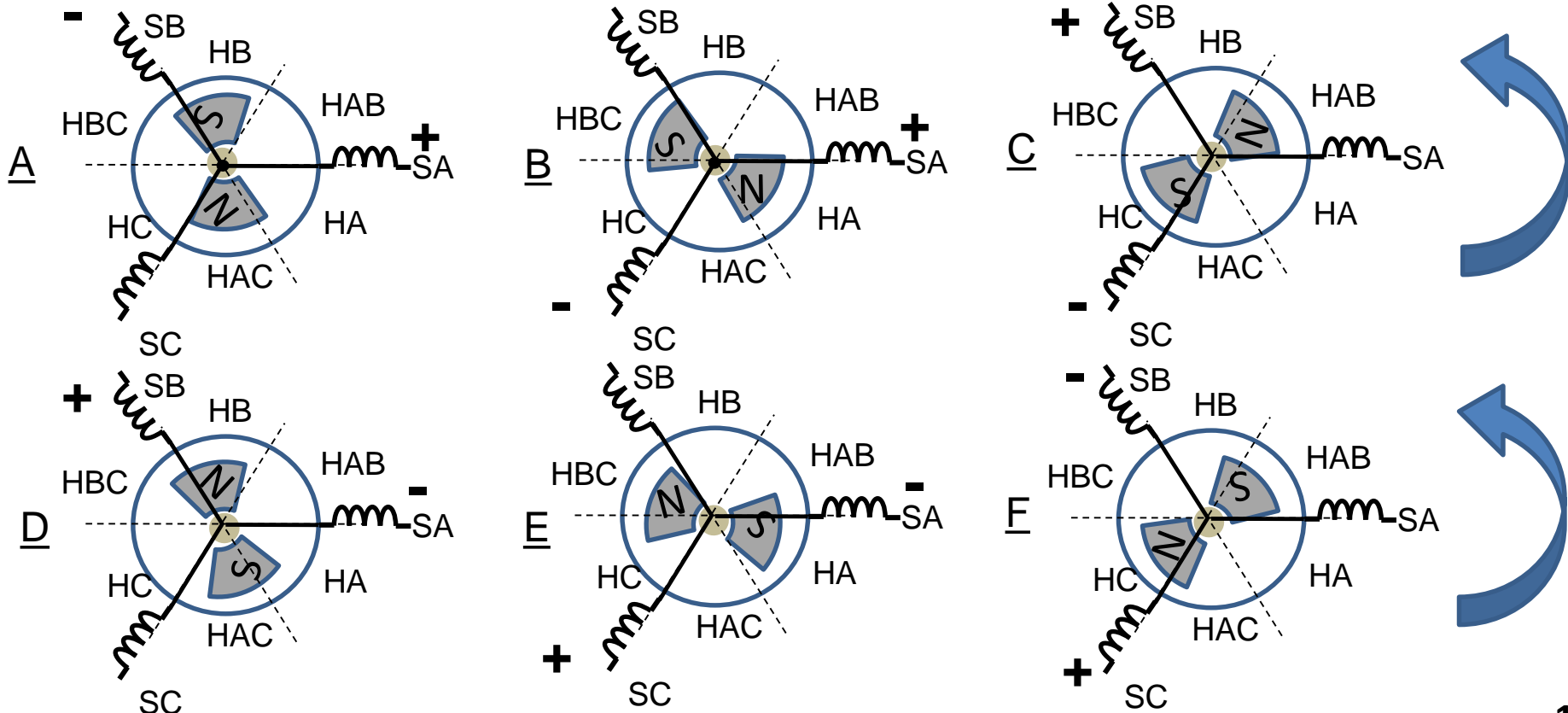


DIR = 1 = FOR

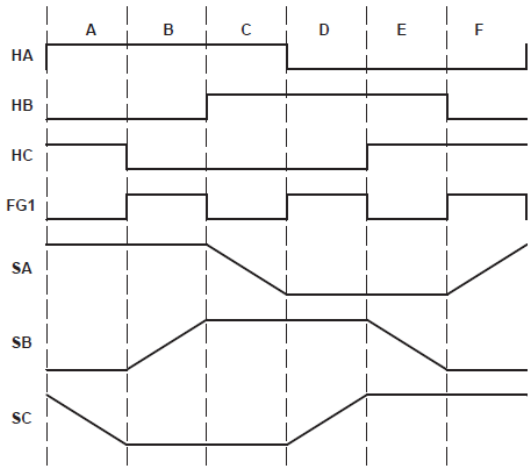


Hall Encoder	High	Low
A=HAC	A	B
B=HA	A	C
C=HAB	B	C
D=HB	B	A
E=HBC	C	A
F=HC	C	B

Normal Operation

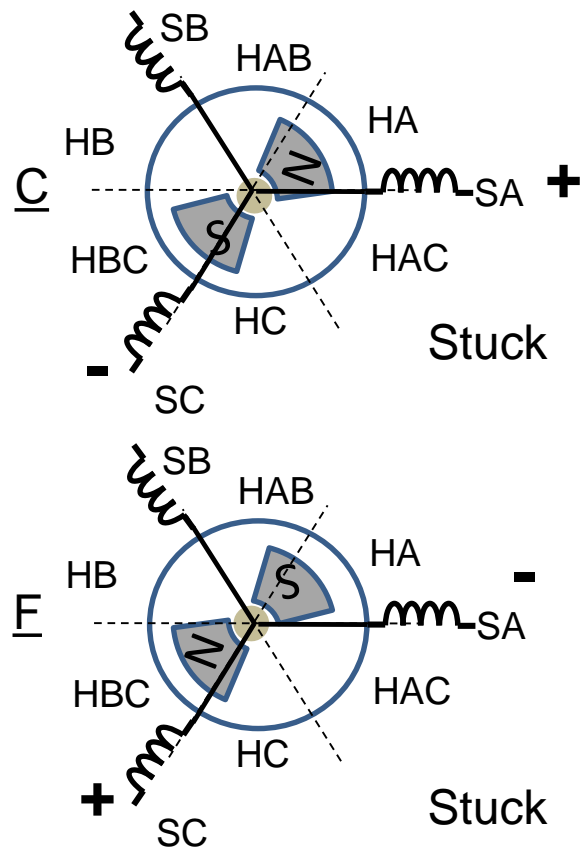
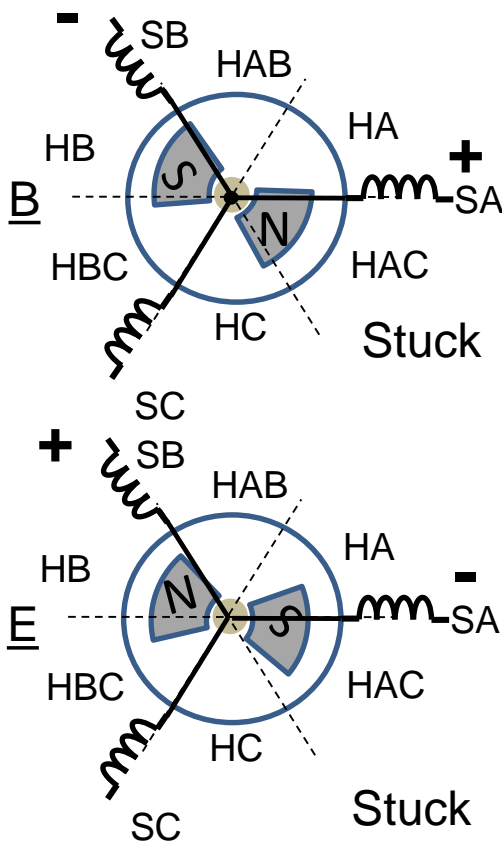
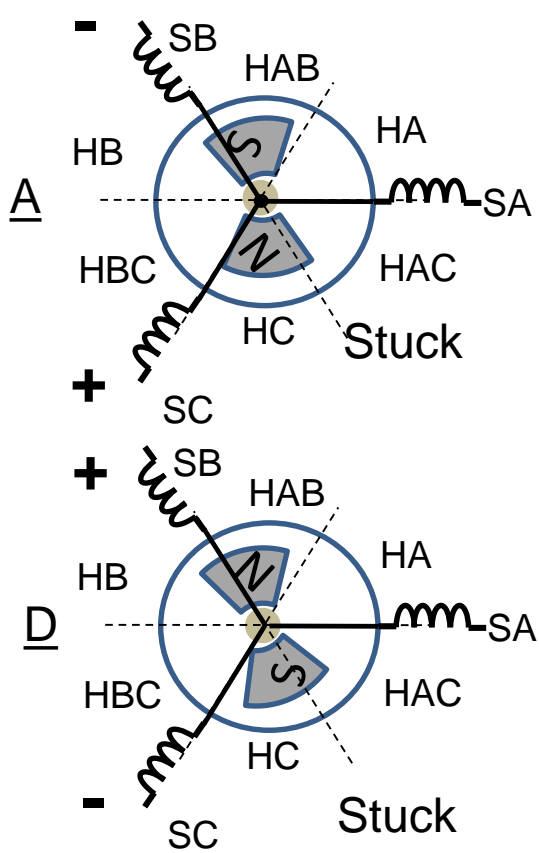


DIR = 1 = FOR

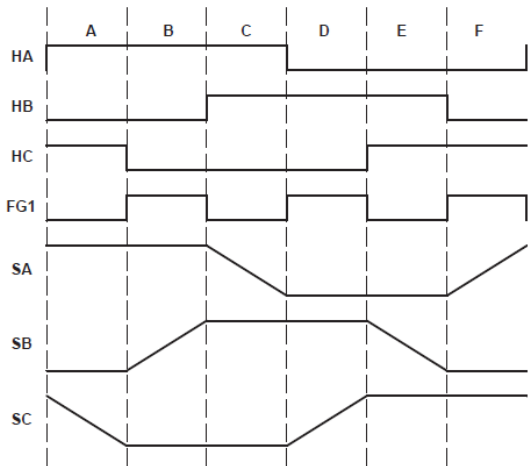


Hall Encoder	High	Low
A=HAC	A	B
B=HA	A	C
C=HAB	B	C
D=HB	B	A
E=HBC	C	A
F=HC	C	B

Hall sensor
angle skewed 60 degrees
FWD= STUCK!

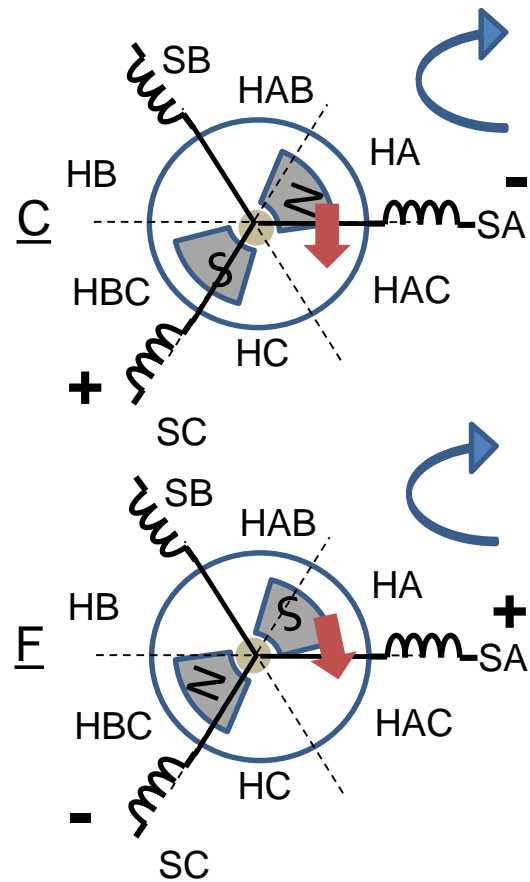
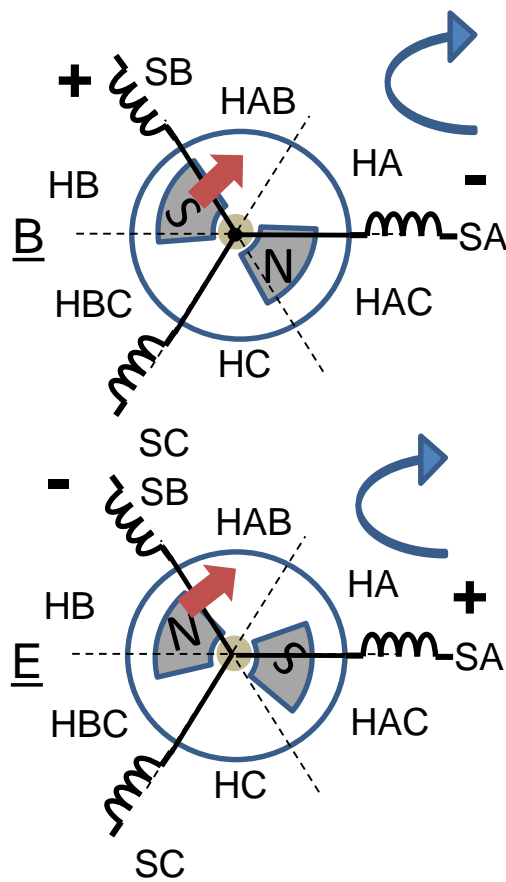
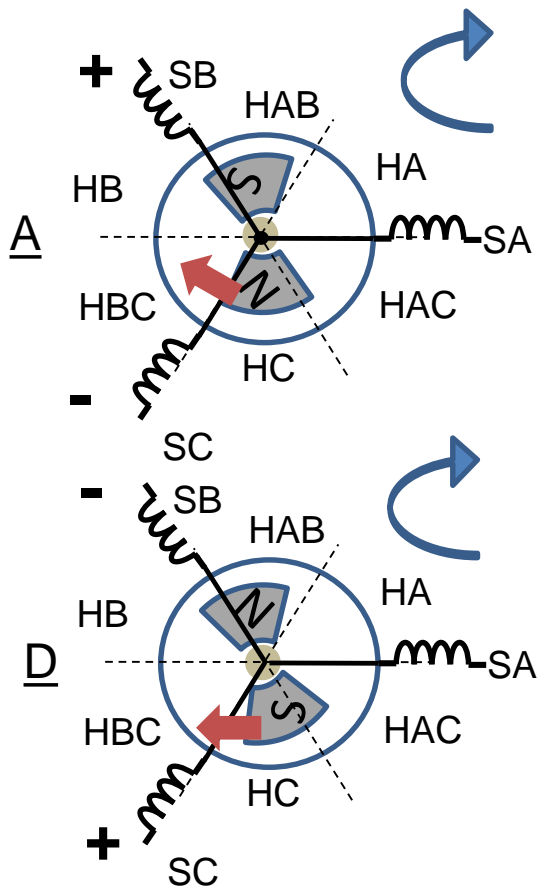


DIR = 1 = FOR

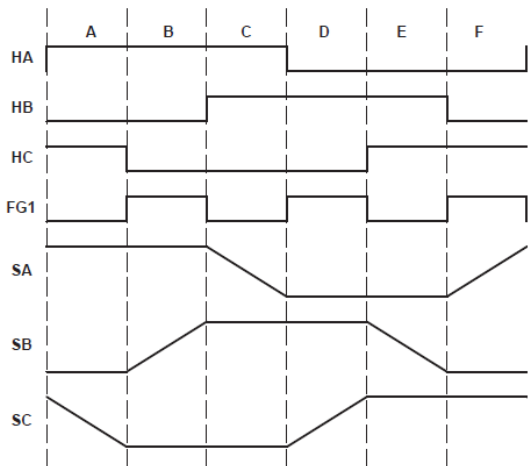


Hall Encoder	High	Low
A=HAC	B	A
B=HA	C	A
C=HAB	C	B
D=HB	A	B
E=HBC	A	C
F=HC	B	C

Hall sensor
angle skewed 60 degrees
REV: weak rotation

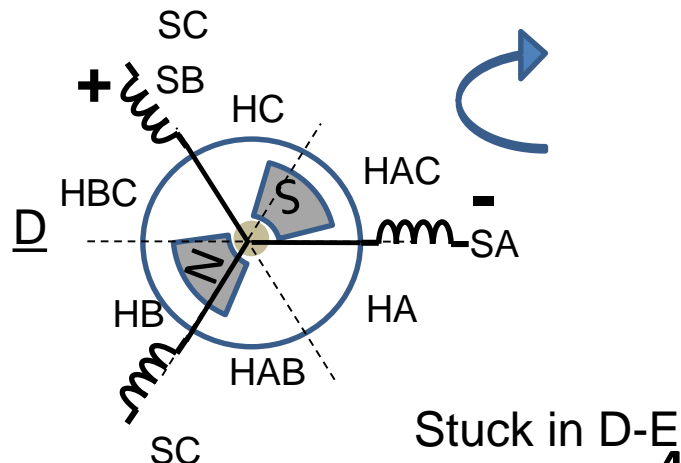
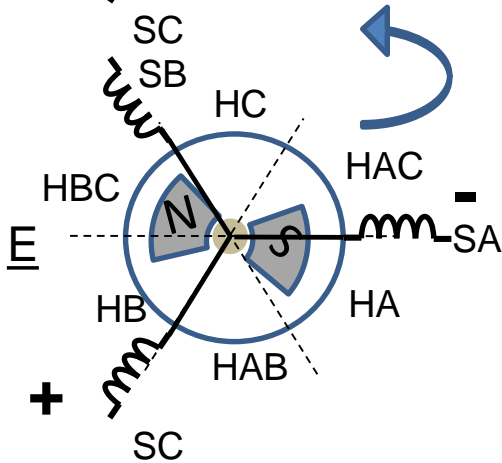
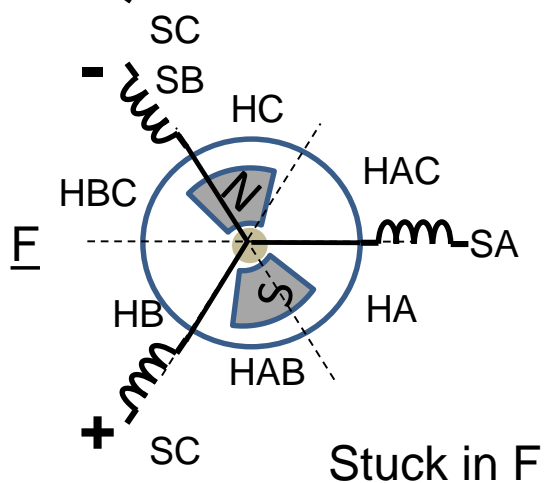
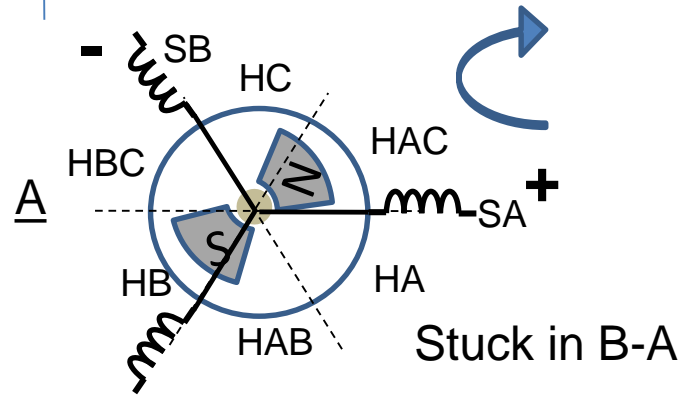
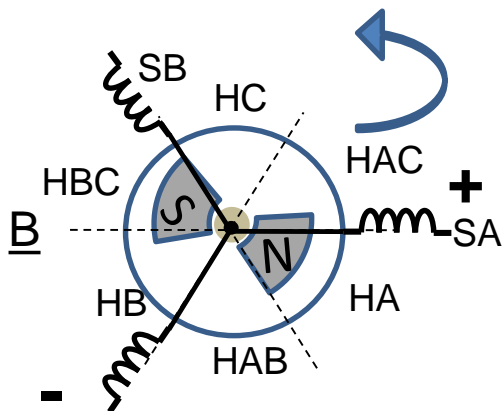
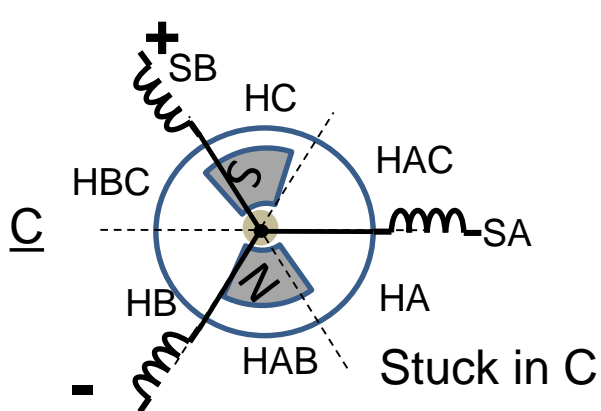
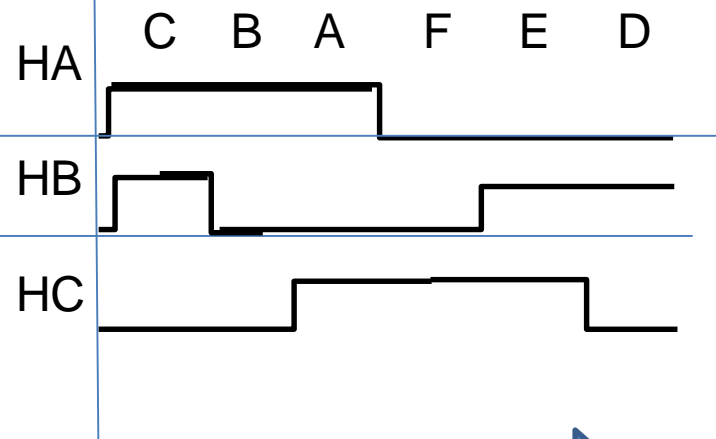


DIR = 1 = FOR

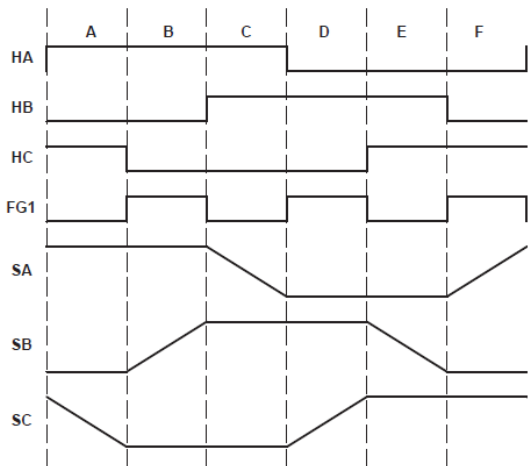


Hall Encoder	High	Low
A=HAC	A	B
B=HA	A	C
C=HAB	B	C
D=HB	B	A
E=HBC	C	A
F=HC	C	B

HB and HC swapped

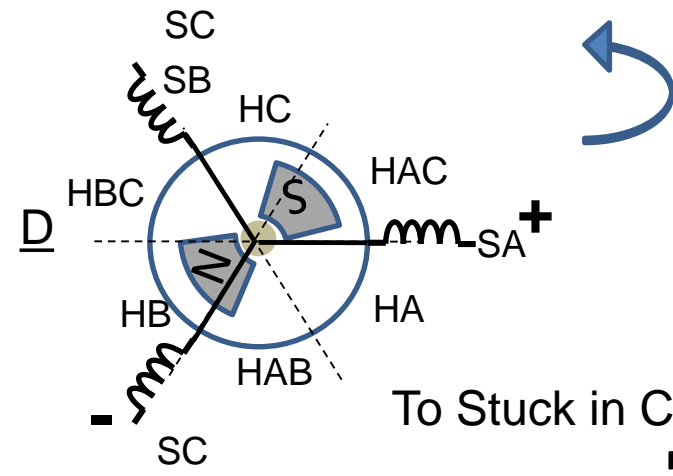
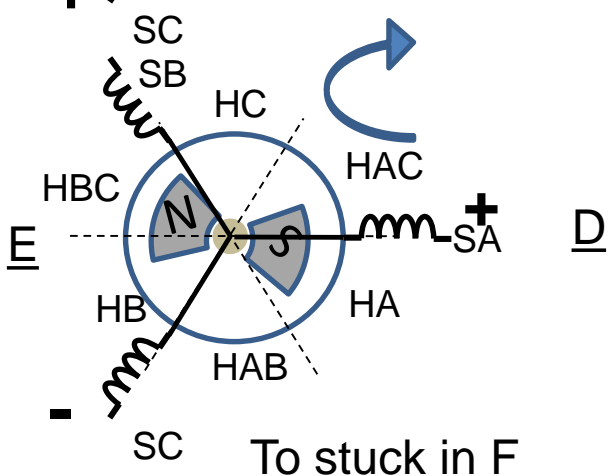
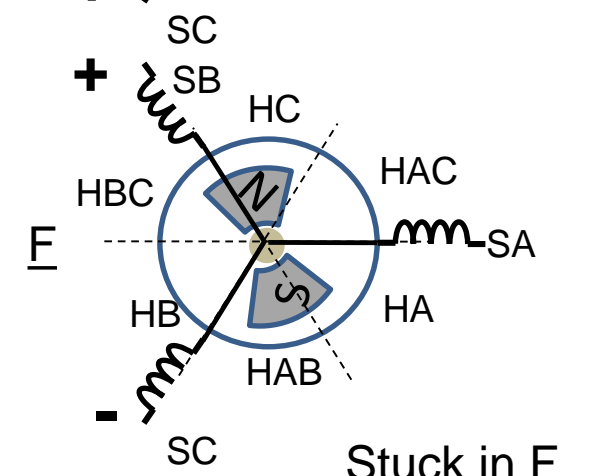
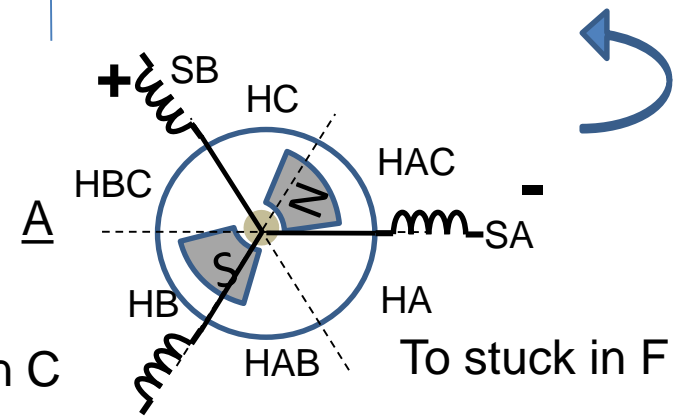
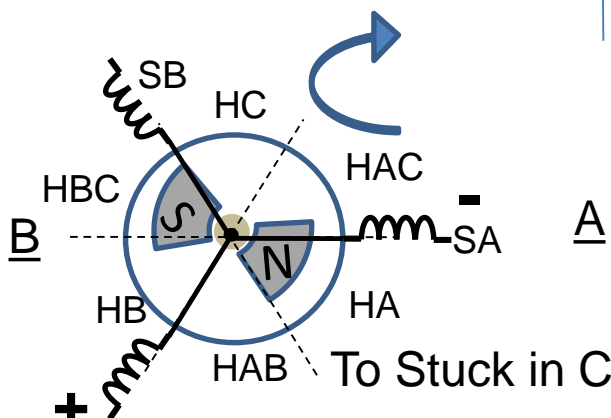
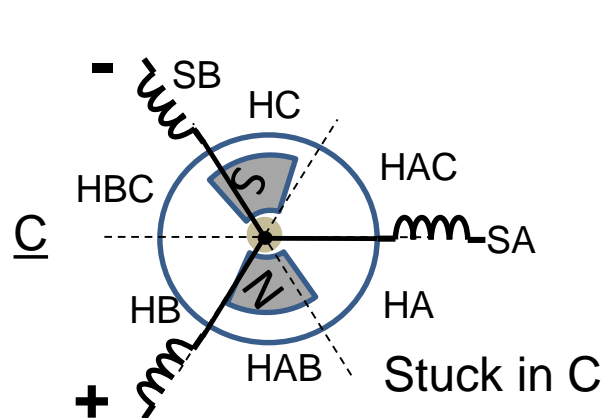
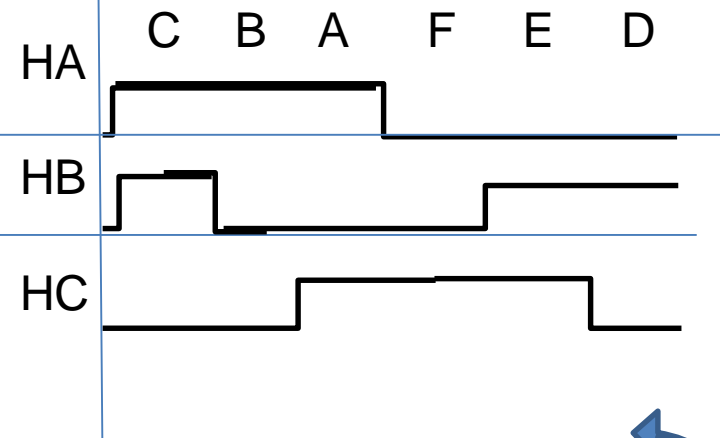


DIR = 1 = FOR

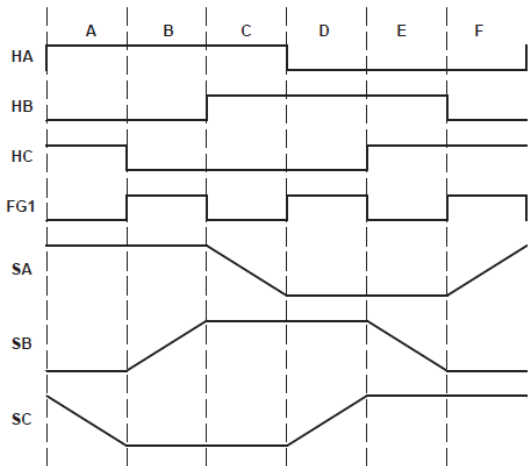


Hall Encoder	High	Low
A=HAC	B	A
B=HA	C	A
C=HAB	C	B
D=HB	A	B
E=HBC	A	C
F=HC	B	C

HB and HC swapped, reverse



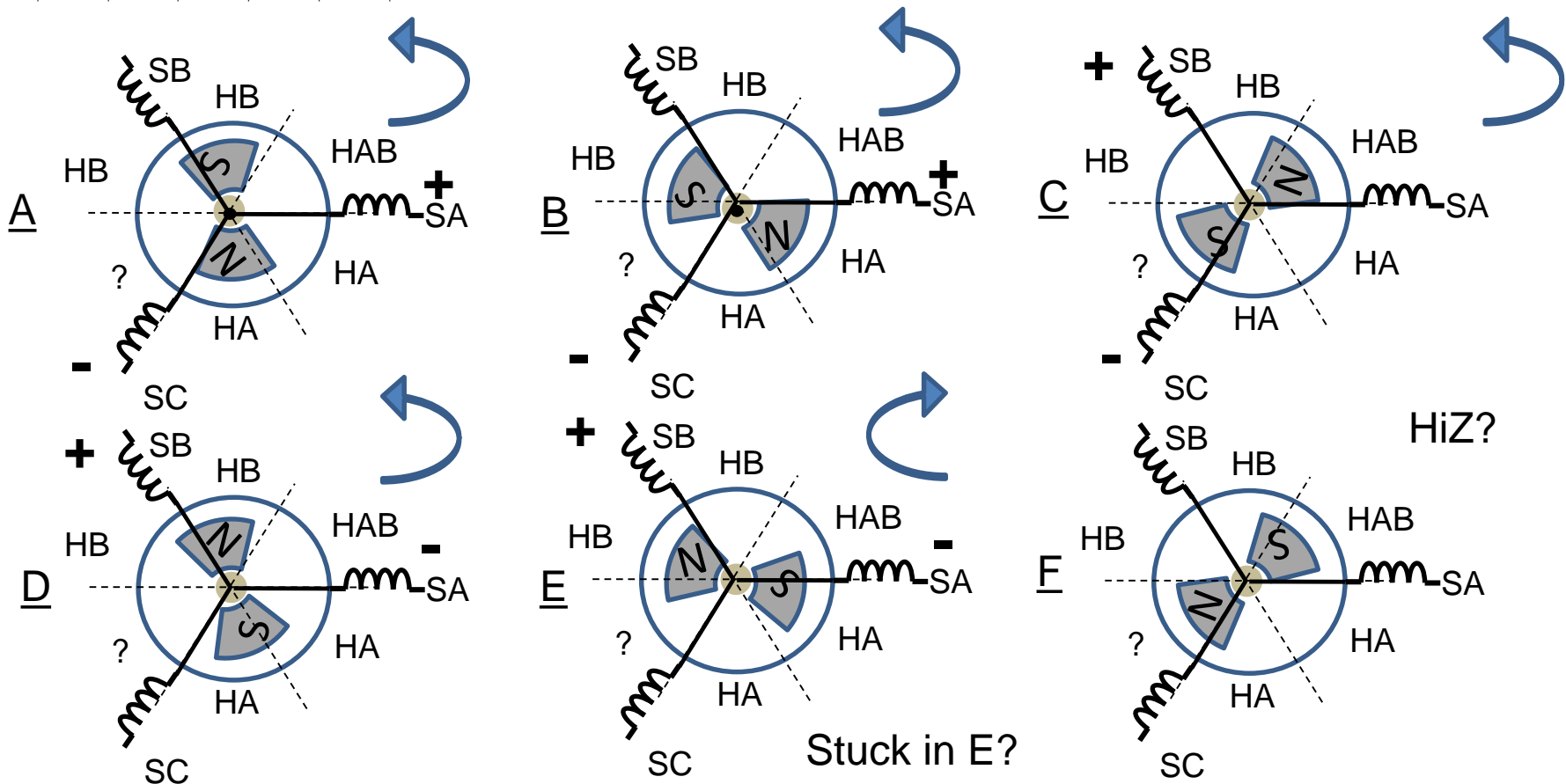
DIR = 1 = FOR



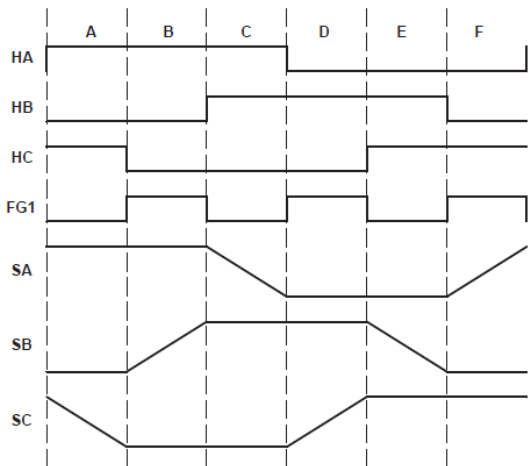
Hall Encoder	High	Low
A=HAC	B	A
B=HA	C	A
C=HAB	C	B
D=HB	A	B
E=HBC	A	C
F=HC	B	C

Hall encoder C stuck at 0, FWD

4 of 6 phase CCW,
1 phase HiZ, 1 phase CW



DIR = 1 = FOR



Hall Encoder	High	Low
<i>HAC</i>	<i>B</i>	<i>A</i>
HA	C	A
HAB	C	B
HB	A	B
<i>HBC</i>	A	C
<i>HC</i>	B	C

Hall encoder C stuck at 0, REV

4 of 6 phase CW,
1 phase HiZ, 1 phase CCW

