

# Superior Stepper Connection Diagrams

## Switching Sequence For Operation From Bipolar Drives

Full-Step (Two-Phase On)  
Energizing Sequence\*

Full-Step (One-Phase On)  
Energizing Sequence\*

Step	Phase	
	A	B
1	+1	+1
2	+1	-1
3	-1	-1
4	-1	+1
1	+1	+1

Step	Phase	
	A	B
1	+1	-
2	-	-1
3	-1	-
4	-	+1
1	+1	-

Half-Step Phase Energizing Sequence\*

Step	Phase	
	A	B
1	+1	+1
2	+1	-
3	+1	-1
4	-	-1
5	-1	-1
6	-1	-
7	-1	+1
8	-	+1
1	+1	+1

\* Rotation is clockwise as viewed from label end of motor.

For counterclockwise rotation, sequence should go from bottom to top of chart.

## Switching Sequence For Operation From Unipolar Drives

Four Step Input Sequence (Full-Step Mode)\*

Step	SW1	SW2	SW3	SW4
1	ON	OFF	ON	OFF
2	ON	OFF	OFF	ON
3	OFF	ON	OFF	ON
4	OFF	ON	ON	OFF
1	ON	OFF	ON	OFF

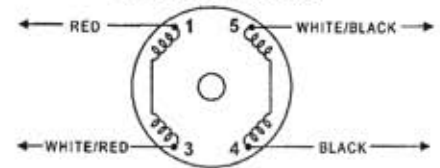
Eight Step Input Sequence (Half-Step Mode)\*

Step	SW1	SW2	SW3	SW4
1	ON	OFF	ON	OFF
2	ON	OFF	OFF	OFF
3	ON	OFF	OFF	ON
4	OFF	OFF	OFF	ON
5	OFF	ON	OFF	ON
6	OFF	ON	OFF	OFF
7	OFF	ON	ON	OFF
8	OFF	OFF	ON	OFF
1	ON	OFF	ON	OFF

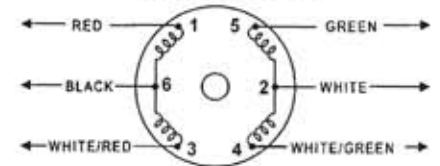
\* Rotation is clockwise as viewed from label end of motor. For counterclockwise rotation, sequence should go from bottom to top of chart.

## Connection Diagrams

### 4 Lead Motors



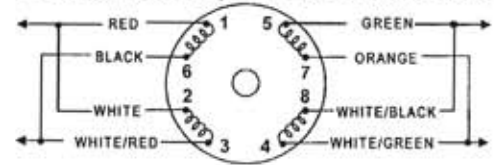
### 6 Lead Motors



### 8 Lead Motors, Series Connected



### 8 Lead Motors, Parallel Connected



NOTE: Numbers identify terminal board connections.