



4-Phase Unipolar Stepper Motors

7.5° step angle

Holding torque (mNm) Stock No.

20mNm 440-262

52mNm 440-284

155mNm 440-290

240mNm 440-307

15° step angle

Holding torque (mNm) Stock No.

14.5mNm 199-863

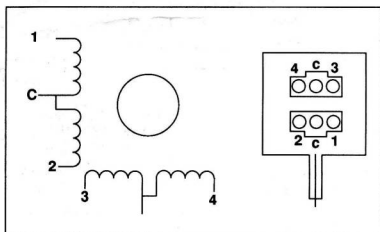
A range of permanent magnet motor construction stepper motors ideally suited to the RS range of stepper motor drive cards. These are easily interfaced with simple low power electronics thus providing economical means of motion and speed control. Due to their permanent magnet rotors these motors have a breaking torque even when not energised. This is the detent (residual) torque which is a useful feature for positional integrity.

Step Sequence (full step)

Step No.	1	2	3	4
Start position (arbitrary)	ON	OFF	OFF	ON
1	ON	OFF	ON	OFF
2	OFF	ON	ON	OFF
3	OFF	ON	OFF	ON
4	ON	OFF	OFF	ON
5	ON	OFF	ON	OFF

↑ Anti-Clockwise
↓ Clockwise

Above sequence repeating



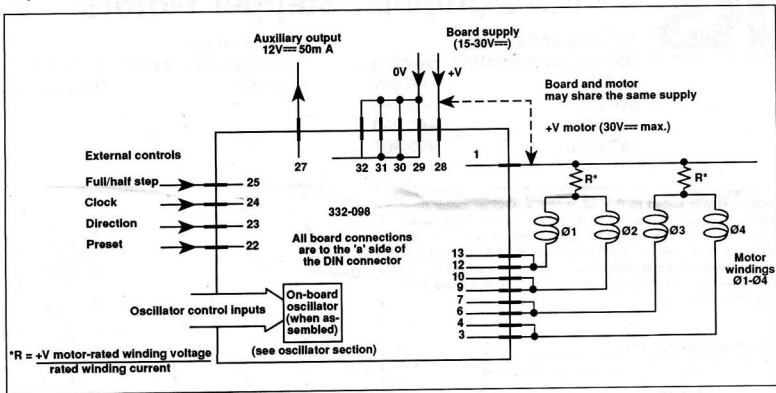
Connection Diagram

Step No.	1	2	3	4
Start position	ON	OFF	ON	OFF
1	ON	OFF	OFF	OFF
2	ON	OFF	OFF	ON
3	OFF	OFF	OFF	ON
4	OFF	ON	OFF	ON
5	OFF	ON	OFF	OFF
6	OFF	ON	ON	OFF
7	OFF	OFF	ON	OFF
8	ON	OFF	ON	OFF
9				

↑ Anti-Clockwise
↓ Clockwise

Above sequence repeating

Step Sequence (half step)



Bi-polar Chopper 3.5A Drive Board

