37217-RL

Auto Reverse/Forward DC Motor Control



1X-8X through the jumper pads (up to 40000 seconds (> 11hrs) X Multiplier Applies to Both Forward & Reverse

NOTE: Turning OFF or Removing Board Power (Vin & GND) <u>Does not</u> Remove Power From Motor! Motor Power (P+ & P-) Must Also be Removed or Turned OFF!

Motor Will Rotate in "REVERSE" Direction if Board Power OFF/Removed AND Motor Power is On!



NOTE: <u>Motor and Motor Power</u> does not distinguish between Positive (+)/Negative (-) or AC. Terminals are connected to Relay Contacts Only (Forward/Reverse is Relative to your connections & needs). Symbols are for Reference Only.



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Normal Operation

1. After Power up: D1 blinks 3 times, now in the "Working Mode"

Reverse: LED D2 ON Forward: LED D2 OFF

2. Cycle Repeats Until Board Power Is Removed



WATCH VIDEO BEFORE ATTEMPTING

Setup: NOTE: This can be tedious, Be prepared to make several attempts!

Best to set up basic running times <u>before</u> you select the Multiplier; Remembering that X1= "what you set is what you get" — X2 is double — X8 is 8 times!

Any Pause in Setup over ~10 seconds results in reverting to "Working Mode"

1. Setting "Forward" run time.

- a. When D2 is OFF, Press and hold the KEY button for 2 seconds to enter "Forward Setup Mode", D1 will come ON
- b. Now In "Forward Setup Mode", Press the KEY button twice, D1 will turn OFF,
- c. Now In "Forward Time Set Mode", press the KEY button, timing starts, D1 is flashing
 - Allow D1 to flash for the time you want motor to run
 - Note: The total time D1 flashes will become the Forward run Time (T1)
 - Press KEY button again to stop the clock (exit "Time set Mode").
 - The D1 flashing time is now been set as the Forward run Time (T1)
- d. IF Finished Cycle the power
- e. To continue to Set "Reverse Time"

2. Setting "Reverse" run time.

- a. When D2 is ON, Press and hold the KEY button for 2 seconds to enter "Reverse Setup Mode", D1 will come ON
- b. Now In "Reverse Setup Mode", press the KEY button twice, D1 will turn OFF,
- c. Now in "Reverse Time Set Mode" press the KEY button, timing starts, D1 is flashing
 - Allow D1 to flash for the time you want motor to run

Note: The total time D1 flashes will become the Reverse run Time (T2)

- Press KEY button again to stop the clock (exit "Time set Mode").
- The D1 flashing time is now been set as the Reverse run Time (T2)
- d. Cycle the power to see run times as set (X1)

Forward T1 & Reverse T2 base times are set up.



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3. Set Multiplier

a. Jumper (or solder bridge) Multiplier pads as you need (X1-X8) NOTE: X Multiplier Applies to Both Forward & Reverse





