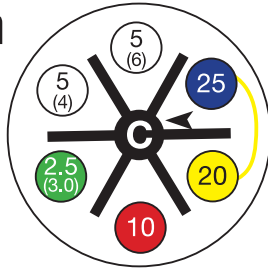




## Turbo200 Motor Run

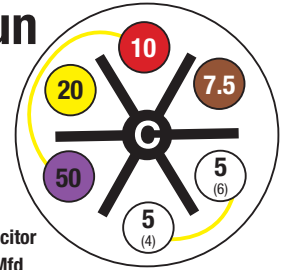
Single Value Capacitors:  
370 VAC and 440 VAC Rated



Item No.	Capacitor Values	Total Value Mfd
1	2.5	= 2.5
2	5.0	= 5.0
3	2.5 5.0	= 7.5
4		= 10.0
5	2.5	= 12.5
6	5.0	= 15.0
7	2.5 5.0	= 17.5
8		= 20.0
9	2.5	= 22.5
10	5.0	= 25.0
11	2.5 5.0	= 27.5
12		= 30.0
13	2.5	= 32.5
14	5.0	= 35.0
15	2.5 5.0	= 37.5
16	5.0	= 40.0
17	2.5 5.0	= 42.5
18		= 45.0
19	2.5	= 47.5
20	5.0	= 50.0
21	2.5 5.0	= 52.5
22		= 55.0
23	2.5	= 57.5
24	5.0	= 60.0
25	2.5 5.0	= 62.5
26	5.0 5.0	= 65.0
27	2.5 5.0 5.0	= 67.5

## Turbo200X Motor Run

Single Value Capacitors:  
370 VAC and 440 VAC Rated

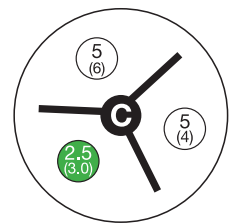


Capacitor Values	Total Value Mfd
50 20	= 70
50 20 5	= 75
50 20 10	= 80
50 20 10 5	= 85
50 20 10 5 5	= 90
50 20 10 7.5 5 5	= 97.5*

## Turbo Mini Motor Run

Single Value Capacitors:  
370 VAC and 440 VAC Rated

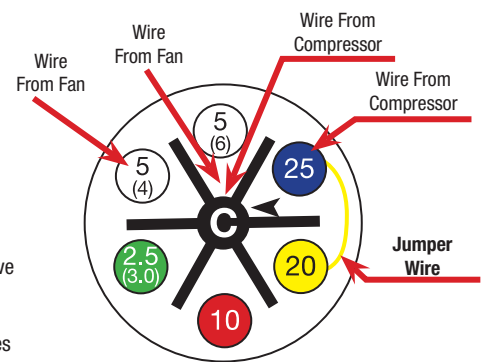
Item No.	Item to be replaced	Select	Mfd
1	2.5 (3 mfd)		= 3.0
2	5** (4 mfd)		= 4.0
3	5*** (6 mfd)		= 5.0
4	5*** (6 mfd)		= 6.0
5	2.5 (3 mfd) 5** (4 mfd)		= 7.5
6	5** (4 mfd) 5*** (6 mfd)		= 10.0
7	2.5 (?3mfd) 5** (4 mfd) 5*** (6 mfd)		= 12.5



## Use Turbo200 as a Dual Value Motor-Run Capacitor

### STEPS:

1. Make note of the wires which are attached to the fan motor (F), common (C) and compressor (Herm) terminals of the capacitor being replaced.
2. To achieve the 45.0 microfarad for the compressor (HERM) - Using one (1) yellow jumper wire, connect the 25 + 20 to equal a 45.0 microfarad.
3. Connect one of the wires from the compressor to either the 25 mfd or the 20 mfd terminal
4. Connect the other wire(s) from the compressor to the common (C). [The common is the centre black terminal].
5. To obtain the 5.0 microfarad for the fan (F), connect one wire from the fan motor to either one of the 5 microfarad terminals.
6. Connect the other wire from the fan motor to the common (C). [The common is the centre black terminal].
7. Using a permanent marker, make a note on the body of the capacitor showing the jumpered capacitor values you have selected, together with the external connection for fan and/or compressor leads, note the total values of each capacitor group.
8. Simply remove the wires from the old capacitor and connect to the Turbo®200 in the same manner. Connect the wires from the fan and/or compressor to any one of the terminals which have been combined.



This is just a **partial** list of the many single and **dual** value capacitors that can be replaced with Turbo®200

30/3	25/5	25/7.5	25/10	30/5	30/7.5	30/10	30/12.5	35/4	35/5
35/7.5	35/10	40/5	40/7.5	40/10	45/5	40/3	45/7.5	45/10	50/5
50/7.5	50/10	50/12.5	55/5	55/7.5	55/10	55/12.5	60/7.5	60/4	60/4
30/4	45/12.5	35/12.5	60/6	60/5	35/6	45	50	60	65

This is just a **partial** list of the many single and **dual** value capacitors that can be replaced with Turbo®200X

60/10	70/5	70/10	80/5	80/7.5	80/10	90/5	90/7.5	70	80
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**NOTE: Any capacitance value derived from the Turbo®200 may also be used to replace a plastic-cased, Motor-Start capacitor of equal value for Motor-Start requirements.**

# MULTIPLE-VALUE MOTOR-START CAPACITORS

One Turbolytic™50 can replace any one of **64 different** motor-start capacitance values with voltage ratings from 125 to 330 VAC!

**NOTE: THIS IS NOT A MOTOR-RUN CAPACITOR**

For safety, performance and reliability, the Turbolytic™50 and Turbolytic™Jr have been tested and approved to the highest certification level of UL (Underwriter's Laboratories) Standard 810; 10,000 AFC; Protected. The Turbolytic™50 and the Turbolytic™Jr are industrial-grade, permanent replacement parts which will outperform older-style, plastic-cased electrolytic capacitors with vent holes.

## Turbolytic™50 and Turbolytic™Jr

Items 1 to 14, (up to 270 - 324 microfarads), are available in the Turbolytic™50  
For **lower** capacitance values, the smaller Turbolytic™Jr covers all ranges up to and including 189-227 mfd.

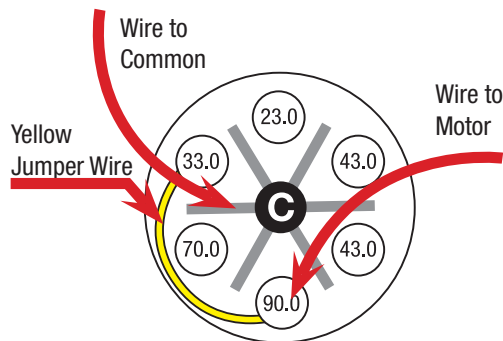
**MOTOR START | TURBOLYTIC™50 | 64mm dia 145mm high (not including terminals)**  
23mfd | 33mfd | 43mfd | 43mfd | 70mfd | 90mfd | Total 303mfd

## TURBOLYTIC™50 - HOW IT WORKS

Using the Turbolytic™50 to replace a 108-130mfd motor-start capacitor - (Item 6)

**Step 1** - Use one yellow jumper wire and connect the red terminal (33mfd) and purple terminal (90mfd) together. This will equal 123mfd (which falls within the 108-130mfd range).

**Step 2** - Take the wires which were disconnected from the old motor-start capacitor and connect one wire to C (common) and one wire to the 90.0mfd.



THE "COMMON" SIDE OF THE CAPACITOR IS THE BLACK TERMINAL

[ \* Note: Motor-Start microfarad (mfd) capacitance values are always shown as a range (low to high) ]



ITEM	TO REPLACE A CAPACITOR IN THIS RANGE*	USE THESE MFD VALUES ON THE TURBOLYTIC50	FINAL REPLACEMENT VALUE WHICH THEN FALLS WITHIN THE APPROPRIATE RANGE (IN MFD)
1	21-25 MFD	23 =	23 MFD TOTAL
2	30-36 MFD	33 =	33 MFD TOTAL
3	34-53 MFD	43 =	43 MFD TOTAL
4	72-88 MFD	43 + 43 =	86 MFD TOTAL
5	88-108 MFD	70 + 33 =	103 MFD TOTAL
6	108-130 MFD	90 + 33 =	123 MFD TOTAL
7	124-149 MFD	70 + 43 + 23 =	136 MFD TOTAL
8	135-155 MFD	90 + 33 + 23 =	146 MFD TOTAL
9	145-174 MFD	90 + 70 =	160 MFD TOTAL
10	161-193 MFD	70 + 90 + 23 =	183 MFD TOTAL
11	176-216 MFD	70 + 90 + 43 =	203 MFD TOTAL
12	189-227 MFD	70 + 90 + 33 + 23 =	216 MFD TOTAL
13	233-288 MFD	70 + 90 + 43 + 43 + 23 =	269 MFD TOTAL
14	270-324 MFD	23 + 33 + 43 + 43 + 70 + 90 =	302 MFD TOTAL

## TURBOLYTIC™Jr

**MOTOR START | TURBOLYTIC™Jr | 64mm dia 116mm high (not including terminals)**  
23mfd | 33mfd | 33mfd | 33mfd | 43mfd | 43mfd | Total 208mfd



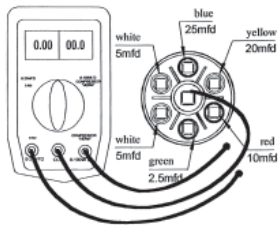
To replace a Capacitor in this range	Use these Capacitors	Final Replacement Value then falls within the appropriate range
21-25 MFD	33 =	33 MFD TOTAL
30-36 MFD	33 =	33 MFD TOTAL
34-53 MFD	23+33 =	56 MFD TOTAL
72-88 MFD	23+33+33 =	88 MFD TOTAL
88-108 MFD	33+33+33 =	99 MFD TOTAL
108-130 MFD	23+33+33+33 =	122 MFD TOTAL
124-149 MFD	33+33+33+43 =	142 MFD TOTAL
135-155 MFD	33+33+43+43 =	152 MFD TOTAL
145-174 MFD	23+33+33+43+43 =	175 MFD TOTAL
161-193 MFD	33+33+33+43+43 =	185 MFD TOTAL
176-216 MFD	23+33+33+33+43+43 =	208 MFD TOTAL
189-227 MFD	23+33+33+33+43+43 =	208 MFD TOTAL



# Introducing the World's First **DUAL SCREEN** Turbo<sup>®</sup> Capacitance Meter

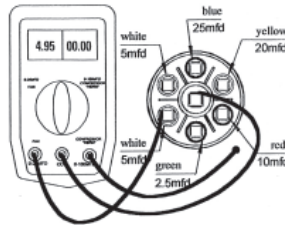
The dual screen Turbo capacitor meter can be used to check the connections as you build up the capacitor values for a dual, fan and compressor, motor run capacitor.

**To create a Dual 55 / 7.5 microfarad (mfd) capacitor using the Turbo@200 Universal Replacement Capacitor**



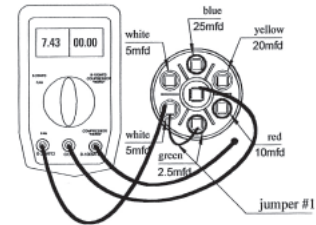
### Step 1

Turn meter on by depressing the 'red power' button. Attach common lead wire from the capacitor meter to common (centre terminal) of capacitor.



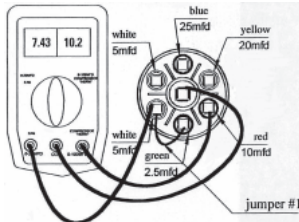
### Step 2

Attach 'fan' side of the capacitor meter to the 5mfd (white terminal). The reading on the meter will show approximately 5.0mfd (left hand side).



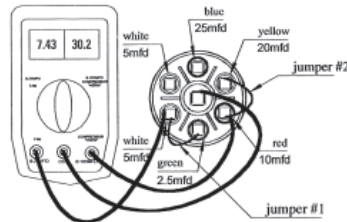
### Step 3

Attach a 'jumper' wire from the 5mfd to the 2.5mfd (green terminal). The reading will now show approximately 7.5mfd. You have now created the necessary 'fan' capacitor.



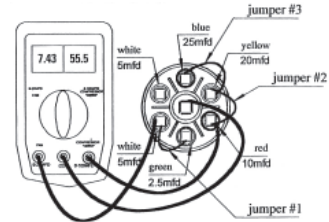
### Step 4

Attach the 'compressor' lead wire to the capacitor meter to the 10mfd terminal (red). It will show approximately 10mfd on the screen (right hand side).



### Step 5

Attach a 'jumper' wire from the 10mfd terminal to the 20mfd terminal (yellow). You will now see approximately 30mfd on the capacitance meter.



### Step 6

Attach a 'jumper' wire from the 20mfd terminal to the 25mfd terminal (blue). You will now see approximately 55mfd on the capacitance meter.

### Step 7

Make the external connection from the capacitor to the equipment, wire to the common terminal of the capacitor, then connect the leads to the fan and/or compressor.

### Step 8

Using a permanent marker, make a note on the body of the capacitor showing the jumpered capacitor values you have selected, together with the external connection for fan and/or compressor leads, note the total values of each group of capacitors used.

**You have successfully created a replacement for a dual value (55+7.5) capacitor, and both values can be viewed simultaneously on the screen!**



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