



AMRAD'S PATENTED TURBO200® UNIVERSAL REPLACEMENT SERVICE CAPACITOR INSTRUCTIONS

131 Different Items at 370 VOLTS (AC); 131 Different Items at 440 VOLTS (AC) For a Total of 262 Different Part Numbers

AMRAD Engineering
 A Division of American Radionic Co., Inc. (EST. 1939)
 A LEADING MANUFACTURER OF MOTOR-RUN CAPACITORS
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TURBO200®

Family Of Products Designed, Developed & Manufactured In The USA By Amrad Engineering

Outside the U.S., contact AmRad's International Sales Group at: 1-386-445-6000 (8 AM to 5:30 PM, EST). *The Turbo200® is produced under one or more American Radionic United States patent numbers: 7,835,133, 7,474,519; 7,423,861; 7,203,053; 6,014,308. Additional patents pending. The Turbo200® series is designed, developed and manufactured by American Radionic Co., Inc., Palm Coast, Florida USA

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Important Note: There are two different 5.0 mfd values.

➔ One can be used as a 5.0 or 4.0 microfarad. The other can be used as a 5.0 or 6.0 microfarad. ➔

SINGLE VALUE DIAGRAMS

SINGLE VALUE CAPACITORS: 370/440VAC RATED

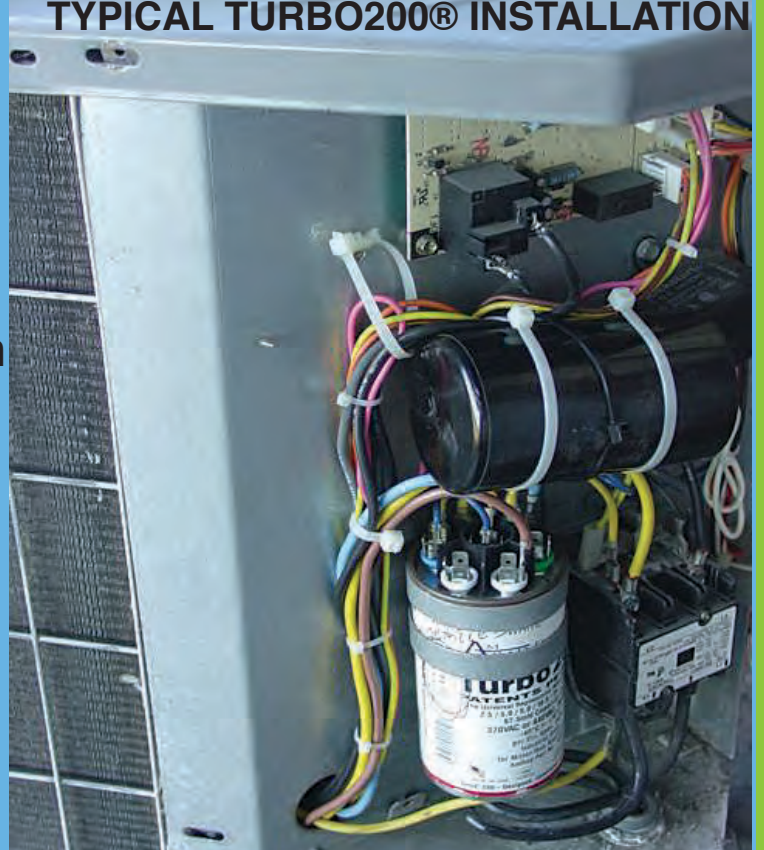
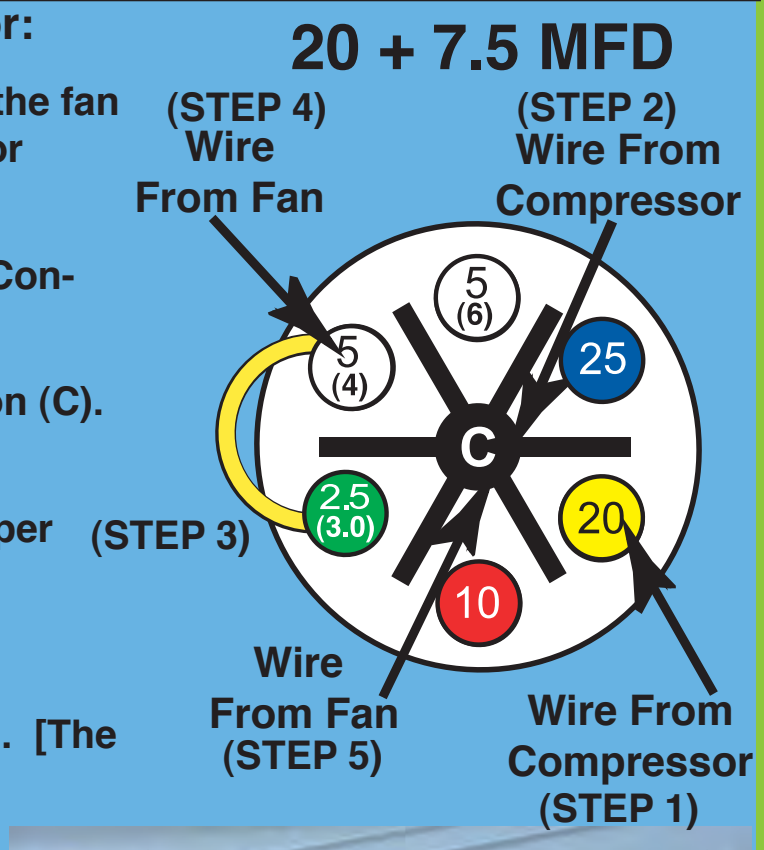
FAN VALUES	2.5 MFD	3.0 MFD	Wire From Fan 4.0 MFD	Wire From Fan 5.0 MFD	6.0 MFD	Wire From Fan 7.5 MFD	10.0 MFD	12.5 MFD	15.0 MFD
	17.5 MFD	20.0 MFD	22.5 MFD	25.0 MFD	27.5 MFD	30.0 MFD	32.5 MFD	<p>EXAMPLE: To replace a 35.0 microfarad Single Value Capacitor:</p> <p>BEFORE YOU START: Make note of the wires which are attached to the fan motor (F), common (C), and compressor (Herm) terminals of the capacitor being replaced.</p> <p>STEP 1: To achieve the 35.0 microfarad for the compressor (HERM) - Using one (1) jumper wire connect the 25 + 10. This will equal 37.5 microfarads.</p> <p>STEP 2: Connect one of the wires from the compressor to the 25 MFD terminal.</p> <p>STEP 3: Connect the other wire(s) from the compressor to the common (C). [The common is the center black terminal].</p>	
	35.0 MFD	37.5 MFD	40.0 MFD	42.5 MFD	45.0 MFD	47.5 MFD	50.0 MFD		
	52.5 MFD	55.0 MFD	57.5 MFD	62.5 MFD	67.5 MFD				
COMPRESSOR VALUES									



TURBO200 DUAL-VALUE DIAGRAMS

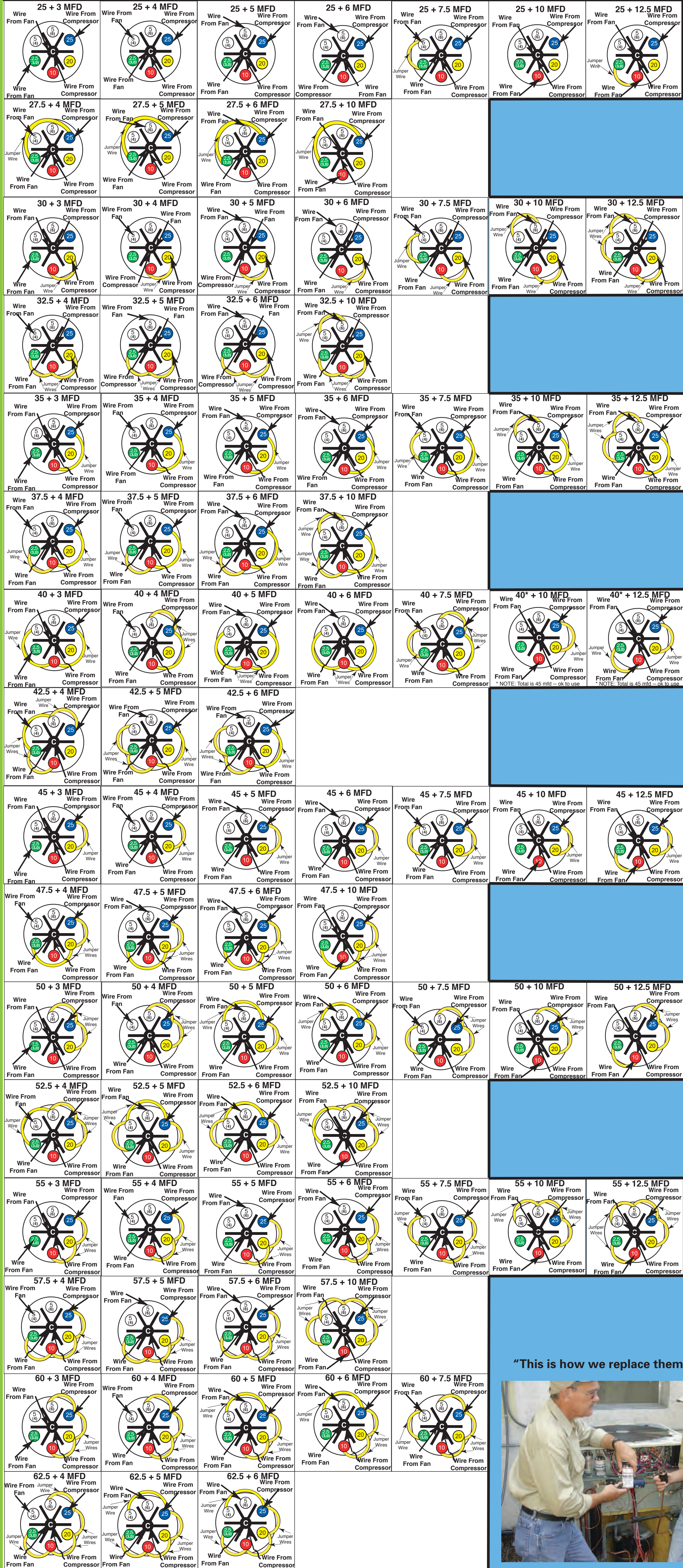
TURBO200 DUAL-VALUE CAPACITORS: 370/440VAC RATED

DUAL-VALUE CAPACITORS SORTED BY COMPRESSOR SIZE	15 + 3 MFD	15 + 4 MFD	15 + 5 MFD	15 + 6 MFD	15 + 7.5 MFD	<p>EXAMPLE: To replace a 20 + 7.5 microfarad Dual-Value Capacitor:</p> <p>BEFORE YOU START: Make note of the wires which are attached to the fan motor (F), common (C), and compressor (Herm) terminals of the capacitor being replaced.</p> <p>STEP 1: To achieve the 20.0 microfarad for the compressor (HERM) - Connect one of the wires from the compressor to the 20 MFD terminal.</p> <p>STEP 2: Connect the other wire(s) from the compressor to the common (C). [The common is the center black terminal].</p> <p>STEP 3: To obtain the 7.5 microfarad for the fan (F), using one (1) jumper wire connect the 5 (4) + 2.5 (3.0). This will equal 7.5 microfarads.</p> <p>STEP 4: Connect one of the fan wires to the 5 MFD terminal.</p> <p>STEP 5: Connect the other wire from the fan motor to the common (C). [The common is the center black terminal].</p> <p>NOTE: Not all installations have two (2) wires connected to the common as show in the illustrated examples. In some installations there is only one (1) wire which is common to the compressor and fan motor.</p>					
	17.5 + 4 MFD	17.5 + 5 MFD	17.5 + 6 MFD	<p>DIMENSIONS</p>							
	20 + 3 MFD	20 + 4 MFD	20 + 5 MFD	20 + 6 MFD	20 + 7.5 MFD					20 + 10 MFD	20 + 12.5 MFD
	22.5 + 4 MFD	22.5 + 5 MFD	22.5 + 6 MFD	22.5 + 10 MFD							



DUAL-VALUE DIAGRAMS

DUAL VALUE CAPACITORS: 370 AND 440VAC RATED



EXAMPLE: To replace a 30 + 5 microfarad Dual-Value Capacitor:

BEFORE YOU START: Make note of the wires which are attached to the fan motor (F), common (C), and compressor (Herm) terminals of the capacitor being replaced.

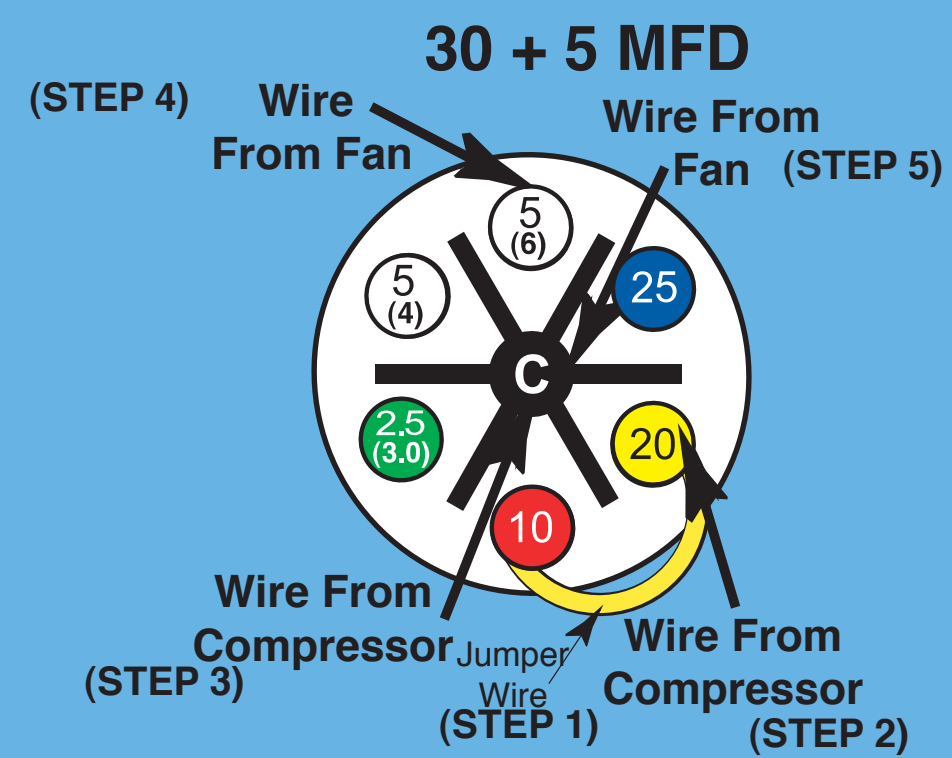
STEP 1: To achieve the 30.0 microfarad for the compressor (HERM) - Using one (1) jumper wire connect the 20 + 10. This will equal 30 microfarads.

STEP 2: Connect one of the compressor wires to the 20 MFD terminal.

STEP 3: Connect the other wire(s) from the compressor to the common (C). [The common is the center black terminal].

STEP 4: Connect one of the fan wires to the 5 MFD terminal.

STEP 5: Connect the other wire from the fan motor to the common (C). [The common is the center black terminal].



NOTE: Not all installations have two (2) wires connected to the common as show in the illustrated examples. In some installations there is only one (1) wire which is common to the compressor and fan motor.



EXAMPLE: To replace a 50 + 7.5 microfarad Dual-Value Capacitor:

BEFORE YOU START: Make note of the wires which are attached to the fan motor (F), common (C), and compressor (Herm) terminals of the capacitor being replaced.

STEP 1: To achieve the 50.0 microfarad for the compressor (HERM) - Using two (2) jumper wires (a) connect the 20 + 25, then (b) connect the 25 + 5. This will equal 50 microfarads.

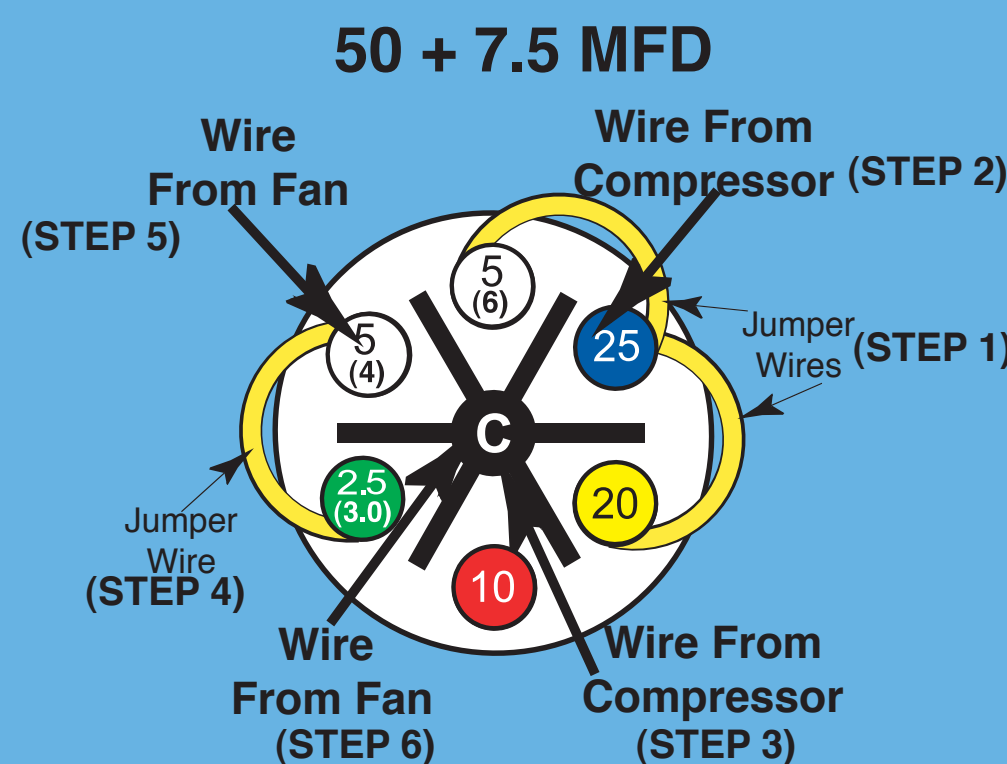
STEP 2: Connect one of the compressor wires to the 25 MFD terminal.

STEP 3: Connect the other wire(s) from the compressor to the common (C). [The common is the center black terminal].

STEP 4: To achieve the 7.5 microfarad for the fan (F) - Using one (1) jumper wire, connect the 5 mfd to the 2.5 mfd terminal. This will equal 7.5 microfarads.

STEP 5: Connect one of the fan wires to the 5 MFD terminal.

STEP 6: Connect the other wire from the fan motor to the common (C). [The common is the center black terminal].



"This is how we replace them today!!"

