

MiniMax® NT TSI Heater Retrofit Kit (P/N 472449)

for Ignition Module from P/N 472240 to P/N 472150

Installation Instructions

IMPORTANT SAFETY INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS

SAVE THESE INSTRUCTIONS

WARNING

FOR YOUR SAFETY - READ BEFORE OPERATING

This product must be installed and serviced by a professional service technician qualified in pool/spa heater installation and maintenance. If you do not follow these instructions exactly, a fire or explosion may result, causing property damage, personal injury or loss of life. For additional free copies of these instructions; call (800) 831-7133.

INSTALLATION

1. Turn off the electrical power to the heater.
2. Open the heater's right door, then remove the left door from the heater.
3. Disconnect all the wires and connectors from the Ignition Module (P/N 472240).
4. Remove the following wires and connectors from the PCB of DDTC:
 - 4-wire connector P11 from J11 (IGN MOD)
 - Gray wire from J2 (FAN)
 - Orange wire from J1 (24VAC)
5. Remove the following wires from the Air Pressure Switch:
 - Orange wire on "COM" terminal
 - Gray wire on "NO" terminal
6. Remove the brown wire from the Flame Sensor.
7. Remove the black wire from L1 to Terminal Block "B".
8. Remove the blue wire from IGN/120 to CON-MAL (white male connector.)
9. Remove the two screws from the mounting bracket of Ignition Module. Then, install the new Ignition Module (P/N 472150) by using the same two screws.
10. Install two new wiring harnesses (P/N 472148 & P/N 472149). Reconnect all the wires **exactly** per the **new** wiring diagram, (see next page).
11. Reattach the left door and replace the new wiring diagram label (P/N 472153) on the inside of the left door.

(continued on back side)

Pentair Pool Products, Inc.

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WIRE COLOR CODE

BK	: BLACK
BL	: BLUE
BR	: BROWN
G	: GREEN
GY	: GRAY
O	: ORANGE
PR	: PURPLE
R	: RED
Y	: YELLOW
W	: WHITE
RW	: RED W/WHITE TRAC
BKW	: BLACK W/WHITE TR

APPENDICE B
LES APPELLATIONS DES
CABLES DE COULEUR
 (cet appendice est instructif et ne fait pas partie des standards)

COULEUR
DU CABLE
APPELLATION

Noir
 BK
 Marron
 BR

SI L'INSTALLATION ÉLECTRIQUE ORIGINALE D'USINE DOIT ÊTRE REMPLACÉE, L'INSTALLATEUR DOIT PROCURER DES CÂBLES ULCSA APPROUVÉS AVEC UNES ÉCHELLES DE TEMPÉRATURES SUIVANTES :

IF ORIGINAL FACTORY WIRING MUST BE REPLACED, INSTALLER MUST SUPPLY UL/CSA APPROVED WIRE WITH 18 AWG, 600V, 105° C TEMP. RATING.

THERMAL FUSE WIRING MUST BE REPLACED WITH 18 AWG, 600V, 150° C TEMP. RATING.

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LES APPELATIONS DES CABLES DE COULEUR (cet appendice est instructif et ne fait pas partie des standards)	
COULEUR	APPÉLATION
DU CÂBLE	BK
Noir	BR
Marron	R
Rouge	O
Orange	Y
Jaune	G
Vert	BL
Bleu	PR
Violet	GY
Gris	W
Blanc	

Save These Instructions Together With Your Existing Operation & Installation Manual For Future Reference.

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