



Features:

TFC54F3-BA2

- Selectable digital output
- Selectable control mode
- Selectable Fahrenheit or Celsius scale
- Manual Night Set Back override (programmable)
- Multi level lockable access menu
- Lockable set point
- Selectable internal or external temperature sensor
- Selectable proportional control band and dead band

Technical Data

TFC54F3-BA2

Outputs	3 programmable dry contact outputs (fan and/or heating/cooling) 2 on/off programmable triac outputs (heating and/or cooling)
Contact rating	Resistive load: rated load: 1.0 Amp / 24 Vac / Vdc Inductive load: rated load: 0.3 Amp / 24 Vac / Vdc maximum switching capacity: 30 VA / 24 W
Triac rating	0.3 Amp @ 24 Vac (8 VA) (Ind./Res.)
Power supply	22 to 26 Vac 50/60Hz
Power consumption	1 VA
Set point range	10°C to 35°C [50°F to 95°F]
Display resolution	±0.1°C [0.2°F]
Control accuracy	Temperature: ±0.5°C @ 22°C [±0.9°F @ 71.6°F] typical calibrated
Proportional band	0.5°C to 5°C [1°F to 10°F] adjustable
External sensor thermistor	Type G, 0°C [32°F] = 29.49kΩ, 25°C [77°F] = 10.00kΩ, 50°C [122°F] = 3.893kΩ,
Electrical connection	0.8 mm ² [18 AWG] minimum
Operating temperature	0°C to 50°C [32°F to 122°F]
Storage temperature	-30°C to 50°C [-22°F to 122°F]
Relative Humidity	5 to 95 % non condensing
Degree of protection of housing	IP 30 to EN 60529
Weight	80 g. [0.18 lb]

Interface

Symbols on display			
	Cooling ON 100% output A: Automatic		Menu set-up Lock ON
	Heating ON 100% output A: Automatic		Programming mode (Technician setting)
	Fan ON A: Automatic		Minimum/Maximum set points
	°C: Celsius scale °F: Fahrenheit scale		Energy saving mode ON

Dimensions

	<table border="1"> <thead> <tr> <th>Dimension</th> <th>Imperial (in)</th> <th>Metric (mm)</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>3.00</td> <td>78</td> </tr> <tr> <td>B</td> <td>3.00</td> <td>78</td> </tr> <tr> <td>C</td> <td>1.00</td> <td>24</td> </tr> <tr> <td>D</td> <td>2.36</td> <td>60</td> </tr> </tbody> </table>	Dimension	Imperial (in)	Metric (mm)	A	3.00	78	B	3.00	78	C	1.00	24	D	2.36	60
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A	3.00	78														
B	3.00	78														
C	1.00	24														
D	2.36	60														

Mounting Instructions

CAUTION: Risk of malfunction. Remove power prior to separate thermostat cover from its base.

- Remove the screw (captive) holding the base and the front cover of the thermostat.
- Lift the front cover of the thermostat to separate it from the base.
- Pull wire through the base hole.
- Secure the base to the wall using wall anchors and screws (supplied). Make the appropriate connections.
- Mount the control module on the base and secure using the screw.

Terminal description

Terminals	TFC54F3-BA2
1	Common
2	24 Vac
3	Exterior temperature sensor
4	Night set back input
5	Contact output 4 (CT4)
6	Contact output 3 (CT3)
7	Contact output 2 (CT2) / Fan output high (DO1)
8	Contact output 1 (CT1) / Fan output medium (DO2)
9	Fan output low (DO3)

Settings on PC Board

Mode Selection (JP1)

JP1	RUN	Jumper (JP1) on RUN: Thermostat is in operation mode . Thermostat must be set in this mode to operate properly. If not locked, set point, control mode and speed fan (Heating & Cooling ON, Cooling only ON or Heating only ON) may be modified by end user.
JP1	PGM	
JP1	RUN	Jumper (JP1) on PGM: Thermostat is set in Programming mode . Refer to following section about all settings description
JP1	PGM	

Digital output signal selection (JP2)

JP2	24VAC	Jumper (JP2) on 24 Vac: All digital output signal is linked to 24 Vac.
JP2	COM	Jumper (JP2) on COM: All digital output signal is linked to common.

Digital output signal selector






Mode selector








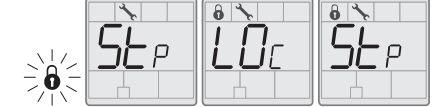





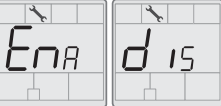



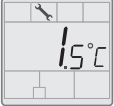












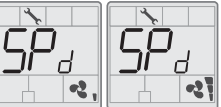
Temperature sensor

Connecting strip

Labels: COM, 24VAC, EXT.TS, NSB. INF, TO1, TO2, DO1, DO2, DO3









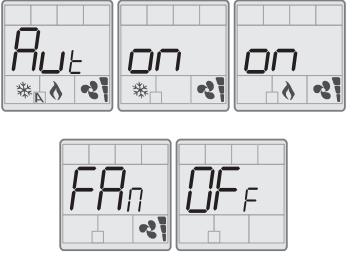

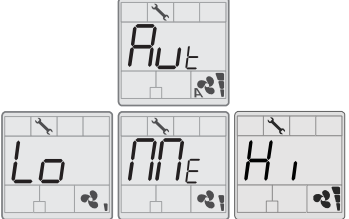
Programming mode

When in this mode this symbol  is displayed. Please press on button  to advance to the next program function, press on button  to return to preceding stage and press on button  or  to change value. You can leave the programming mode at any time, changed values will be recorded.

Step	Display	Description	Values
1		Internal temperature sensor Calibration: Display switches between "tS1" and temperature read by internal temperature sensor. You can adjust the calibration of the sensor by comparison with a known thermometer. For example if thermostat has been installed in an area where temperature is slightly different than the room typical temperature (thermostat place right under the air diffuser).	 Range: 5 to 45°C [41 to 99°F] (max. offset ± 5 °C) Increment: 0.1°C [0.2°F]
2		Minimum set point: Display switches between "Stp" and the minimum set point temperature. MIN symbol is also displayed. Please select the desired minimum set point temperature. The minimum value is restricted by the maximum value (step #3).	 Minimum range: 10 to 35°C [50 to 95°F] Increment: 0.5°C [1.0°F] Default value: 15°C [59°F]
3		Maximum set point Display switches between "Stp" and the maximum set point temperature. MAX symbol is also displayed. Please select the desired maximum set point temperature. The maximum value is restricted by the minimum value (step #2).	 Maximum range: 10 to 35°C [50 to 95°F] Increment: 0.5°C [1.0°F] Default value: 30°C [86°F]
4		Locking the set point : Display switches between "LOc" and "Stp". You can lock or unlock the set point adjustment by end user. If locked the lock symbol will appear. If you do not want to lock set point adjustment by end user.	 Default value: Unlocked
5		Adjust set point: Display scrolls between "Stp" and the temperature set point. Select the desired set point. It should be within the temperature range.	 Setpoint range : 10 to 35°C [50 to 95°F] Increment: 1°C [1.8°F] Default value: 22°C [72°F]
6		Adjust the control mode: Display switches between "Ctl" and "Aut". Select which control mode you want to authorize: Automatic, heating only or cooling only. If you want to authorize this entire mode, choose Automatic mode.	 Default value: Cool only
7		Set On/Off function enable or disable: Display switches between "OFF" and "ena". You can enable or disable the ON/OFF mode adjustment by end user.	 Default value: Enable (Ena)
8		Proportional band 1 in heating: Display switches between "Pb.1" and the value of the 1 st heating proportional band, heating symbol is also displayed. Please select the desired value of 1 st heating proportional band.	 Proportional band range: 0.5 to 5.0°C [1.0 to 10.0°F] Increment: 0.5°C [1.0°F] Default value: 1.5°C [3.0°F]
9		Proportional band 1 in cooling: Display switches between "Pb.1" and the value of the 1 st cooling proportional band, cooling symbol is also displayed. Please select the desired value of 1 st cooling proportional band.	 Proportional band range: 0.5 to 5.0°C [1.0 to 10.0°F] Increment: 0.5°C [1.0°F] Default value: 1.5°C [3.0°F]
10		Dead band in heating: Display switches between "db.1" and the value of the dead band in heating, heating symbols are also displayed. Please select the desired value of dead band in heating.	 Proportional band range: 0.3 to 5.0°C [0.6 to 10.0°F] Increment: 0.1°C [0.2°F] Default value: 0.3°C [0.6°F]
11		Dead band in cooling: Display switches between "db.1" and the value of the dead band in cooling, cooling symbols are also displayed. Please select the desired value of dead band in cooling.	 Proportional band range: 0.3 to 5.0°C [0.6 to 10.0°F] Increment: 0.1°C [0.2°F] Default value: 0.3°C [0.6°F]
12		Set fan speed automatic mode enable or disable: Display switches between "FAn" and "ena". Fan  symbol is also displayed. You can enable or disable the Automatic mode adjustment by end user. If you selected to disable the automatic mode, go directly to step #14.	 Default value: Enable (Ena)
13		Time out fan contact: Display switches between "Fto" and the automatic shutoff delay value (in minutes) when there is no demand. MIN and fan  symbols are also displayed. Please select the desired value of the automatic shutoff delay.	 Range: 0 to 15 min. Increment: 1 min. Default value: 0 min.
14		Fan speed contact: Display switches between "FAn" and "SPd" and the speed of the fan. Fan  symbol is also displayed. Select which speed contact you want: speed 1 or speed 3. If you want to use 3 fan contact, select speed 3 and go directly to step #19.	 Default value: 1 speed

Step	Display	Description	Values
15		Contact 1 (Ct1) Close (CL) position: (If you have selected the 1 fan speed at step #14) Display switches between "Ct1" and the value of the first contact close "CL". Heating or cooling symbol is also displayed. Please select which ramp and percentage you want contact 1 to close: Heating ramp or Cooling ramp at 20% to 90% of the demand.	Range: CL.2, .3, .4, .5, .6, .7, .8 or .9 Increment: 0.1 (10%) Default value: CL.2 + cool symbol (Contact close at 20% of the Cooling demand)
16		Contact 1 (Ct1) Open (OP) position: (If you have selected the 1 fan speed at step #14) Display switches between "Ct1" and the value of the first contact open "OP". Heating or cooling symbol is also displayed. Please select which percentage you want contact 1 to open: 0% to 70% of the demand. <i>Note: The ramp will be the same as you choose for close position at step #15.</i>	Range: OP.0, .1, .2, .3, .4, .5, .6 or .7 Increment: 0.1 (10%) Default value: OP.0 + cool symbol (Contact open at 0% of the Cooling demand)
17		Contact 2 (Ct2) Close (CL) position: (If you have selected the 1 fan speed at step #14) Display switches between "Ct2" and the value of the second contact close "CL". Heating or cooling symbol is also displayed. Please select which ramp and percentage you want contact 2 to close: Heating ramp or Cooling ramp at 20% to 90% of the demand.	Range: CL.2, .3, .4, .5, .6, .7, .8 or .9 Increment: 0.1 (10%) Default value: CL.4 + cool symbol (Contact close at 40% of the Cooling demand)
18		Contact 2 (Ct2) Open (OP) position: (If you have selected the 1 fan speed at step #14) Display switches between "Ct2" and the value of the second contact open "OP". Heating or cooling symbol is also displayed. Please select which percentage you want contact 2 to open: 0% to 70% of the demand. <i>Note: The ramp will be the same as you choose for close position at step #17.</i>	Range: OP.0, .1, .2, .3, .4, .5, .6 or .7 Increment: 0.1 (10%) Default value: OP.3 + cool symbol (Contact open at 30% of the Cooling demand)
19		Contact 3 (Ct3) close (CL) position: Display switches between "Ct3" and the value of the third contact close "CL". Heating or cooling symbol is also displayed. Please select which ramp and percentage you want contact 3 to close: Heating ramp or Cooling ramp at 20% to 90% of the demand.	Range: CL.2, .3, .4, .5, .6, .7, .8 or .9 Increment: 0.1 (10%) Default value: CL.6 + cool symbol (Contact close at 60% of the Cooling demand)
20		Contact 3 (Ct3) open (OP) position: Display switches between "Ct3" and the value of the third contact open "OP". Heating or cooling symbol is also displayed. Please select which percentage you want contact 3 to open: 0% to 70% of the demand. <i>Note: The ramp will be the same as you choose for close position at step #19.</i>	Range: OP.0, .1, .2, .3, .4, .5, .6 or .7 Increment: 0.1 (10%) Default value: OP.5 + cool symbol (Contact open at 50% of the Cooling demand)
21		Contact 4 (Ct4) close (CL) position: Display switches between "Ct4" and the value of the fourth contact close "CL". Heating or cooling symbol is also displayed. Please select which ramp and percentage you want contact 4 to close: Heating ramp or Cooling ramp at 20% to 90% of the demand.	Range: CL.2, .3, .4, .5, .6, .7, .8 or .9 Increment: 0.1 (10%) Default value: CL.8 cool symbol (Contact close at 80% of the Cooling demand)
22		Contact 4 (Ct4) open (OP) position: Display switches between "Ct4" and the value of the fourth contact open "OP". Heating or cooling symbol is also displayed. Please select which percentage you want contact 4 to open: 0% to 70% of the demand. <i>Note: The ramp will be the same as you choose for close position at step #21.</i>	Range: OP.0, .1, .2, .3, .4, .5, .6 or .7 Increment: 0.1 (10%) Default value: OP.7 + cool symbol (Contact open at 70% of the Cooling demand)
23		Delay cooling contact (protection for compressor): Display switches between "noc" and the value (in minutes) of the delay to activate / reactivate cooling contact. MIN and cooling symbols are also displayed. Please select the desired value of the delay cooling contact.	Range: 0 to 10 min. Increment: 1 min. Default value: 0 min.
24		Internal/external temperature sensor selection: Display switches between "tS" and "in" or "out". Please select internal or external sensor. If you selected "in", go directly to step #25.	Default value: Internal temperature sensor (in)
25		External temperature sensor Calibration: Display switches between "tS2" and the temperature read by the external temperature sensor (if connected). You can adjust the calibration of the external sensor by comparison with a known thermometer.	Range: 0 to 50°C [32 to 122°F] (max. offset ± 5°C) Increment: 0.1°C [0.2°F] Display: 0.0°C [32.0°F], resistance will be infinite. 50.0°C [99.9°F], resistance will be short circuited.
26		Night set back derogation time: Display switches between "nSb" and the derogation time in minute. MIN and NSB symbol is also displayed. Please select the desired derogation time. If you select "OFF", the thermostat is off when NSB is activated (go to step #1).	Range: OFF or 0 to 180 min. Increment: 15min. Default value: 120 min.
27		Heating Set point during Night set back: Display switches between "Stp" and the value of the heating set point temperature during night set back. NSB symbol and heating symbols are also displayed. Please select the heating set point temperature during night set back.	Range: 10 to 35°C [50 to 95°F] Increment: 0.5°C [1°F] Default value: 16°C [61°F]
28		Cooling Set point during Night set back: Display switches between "Stp" and the value of the cooling set point temperature during night set back. NSB symbol and cooling symbols are also displayed. Please select the cooling set point temperature during night set back.	Range: 10 to 35°C [50 to 95°F] Increment: 0.5°C [1°F] Default value: 28°C [82°F]

Operation mode

Step	Description	Display
A	<p>At powering up, thermostat will light display and activate all LCD segments during 2 seconds. Illuminating the LCD. To illuminate the LCD, you just have to push onto Δ or ∇ buttons. LCD will light for 8 seconds. Temperature display In operation mode, thermostat will automatically display temperature read. To change the scale between °C and °F, press on both Δ and ∇ for 3 seconds.</p>	
B	<p>Set point display and adjustment: To display the set point, press two times on Δ or ∇. Set point will be displayed during 5 seconds. To adjust set point, press on Δ or ∇ while the temperature set point is displayed. <i>Note: If set point adjustment has been locked,  symbol will be displayed.</i></p>	
C	<p>Night set back (NSB): When thermostat is in night set back mode, NSB  symbol is displayed, so set point for cooling and/or heating are increased as per the setting made in programming mode. If not locked, night set back can be derogated for a predetermined period by pressing onto any of the 4 buttons. During period of NSB derogation the  symbol will flash. If NSB does not flash, the derogation period is finished or the Night set back derogation has been locked in programming mode.</p>	
D	<p>Control mode selection : To change the control mode, press on . Control mode will be displayed during 5 seconds. You can choose one of the following:</p> <ul style="list-style-type: none"> ✓ Automatic Cooling and Heating ✓ Cooling ✓ Heating ✓ Fan only ✓ OFF <p>To turn off thermostat, press on  and select OFF. All the functions will stop.</p> <p><i>Note: These selections can vary according to the choice made on step #6 & #7.</i></p>	
E	<p>Fan speed mode selection: To change the fan speed mode, press on . Fan speed mode will be displayed during 5 seconds. You can choose one of the following:</p> <ul style="list-style-type: none"> ✓ Automatic speed ✓ Low speed ✓ Medium speed ✓ High speed <p><i>Note: These selections can vary according to the choice made on step #12 & #14.</i></p>	

Auto Fan / Auto Speed Sequence 3 speeds contact (programming mode step #14)

Auto Fan (programming mode step #12)	Mode button	Fan button	If control demand > 0	If control demand = 0
Enable	Heat	Auto Speed*	Fan speed = heat demand	Fan = Off
		Low	Fan speed = Low	Fan speed = Low
		Medium	Fan speed = Medium	Fan speed = Medium
		High	Fan speed = High	Fan speed = High
	Cool	Auto Speed*	Fan speed = cool demand	Fan = Off
		Low	Fan speed = Low	Fan speed = Low
		Medium	Fan speed = Medium	Fan speed = Medium
		High	Fan speed = High	Fan speed = High
	Auto (H/C)	Auto Speed*	Fan speed = heat/cool demand	Fan = Off
		Low	Fan speed = Low	Fan speed = Low
		Medium	Fan speed = Medium	Fan speed = Medium
		High	Fan speed = High	Fan speed = High
	Fan	Low	Fan speed = Low	Fan speed = Low
		Medium	Fan speed = Medium	Fan speed = Medium
		High	Fan speed = High	Fan speed = High
Off		Off	Off	
Disable	Heat	Auto Speed*	Fan speed = heat demand	Fan speed = Low
		Low	Fan speed = Low	Fan speed = Low
		Medium	Fan speed = Medium	Fan speed = Medium
		High	Fan speed = High	Fan speed = High
	Cool	Auto Speed*	Fan speed = cool demand	Fan speed = Low
		Low	Fan speed = Low	Fan speed = Low
		Medium	Fan speed = Medium	Fan speed = Medium
		High	Fan speed = High	Fan speed = High
	Auto (H/C)	Auto Speed*	Fan speed = heat/cool demand	Fan speed = Low
		Low	Fan speed = Low	Fan speed = Low
		Medium	Fan speed = Medium	Fan speed = Medium
		High	Fan speed = High	Fan speed = High
	Fan	Low	Fan speed = Low	Fan speed = Low
		Medium	Fan speed = Medium	Fan speed = Medium
		High	Fan speed = High	Fan speed = High
Off		Off	Off	

Auto Fan / Auto Speed Sequence with fan 1 speed contact (programming mode step #14)

Auto Fan (programming mode step #12)	Mode button	Fan button	If control demand > 0	If control demand = 0
Enable	Heat	Auto Speed*	Fan speed = On on heat demand	Fan = Off
		On	Fan = On	Fan = On
	Cool	Auto Speed*	Fan speed = On on cool demand	Fan = Off
		On	Fan = On	Fan = On
	Auto (H/C)	Auto Speed*	Fan speed = On on heat/cool demand	Fan = Off
		On	Fan = On	Fan = On
Off	Off	Off	Off	
Disable	Heat	Auto Speed*	Fan speed = On on heat demand	Fan = On
		On	Fan = On	Fan = On
	Cool	Auto Speed*	Fan speed = On on cool demand	Fan = On
		On	Fan = On	Fan = On
	Auto (H/C)	Auto Speed*	Fan speed = On on heat/cool demand	Fan = On
		On	Fan = On	Fan = On
Off	Off	Off	Off	

*When fan button is set in **Auto Speed**, the symbol  will be apparent.

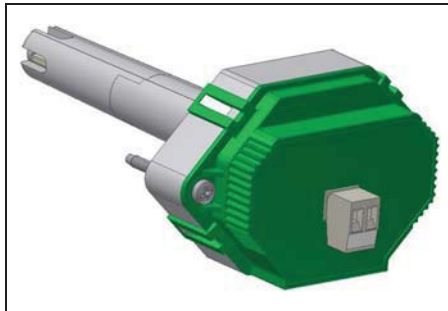
Typical Applications

Ex.	Wiring	Schematic													
1	<p>1 stage cooling, 1 stage electric heater with 3 speed fan</p> <p>Terminals TFC54F3-BA2</p>	<p>TFC54F3-BA2</p>													
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Typical Applications

Ex.	Wiring	Schematic										
4	2 stages cooling with 1 speed fan and duct sensor											
	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Terminals TFC54F3-BA2</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Common</td><td>1</td></tr> <tr><td>24 VAC</td><td>2</td></tr> <tr><td>EXT.TS</td><td>3</td></tr> <tr><td>CT2</td><td>7</td></tr> <tr><td>CT1</td><td>8</td></tr> <tr><td>DO3</td><td>9</td></tr> </table> </div> <div style="width: 45%;"> </div> </div>		Common	1	24 VAC	2	EXT.TS	3	CT2	7	CT1	8
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DO3	9											
	<p>Programming setup</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Step</th> <th>Setup</th> </tr> </thead> <tbody> <tr> <td>14</td> <td>Set "SPd" 1 speed (one digit near de fan)</td> </tr> <tr> <td>15-16</td> <td>Set "Ct1" close and open in cooling</td> </tr> <tr> <td>17-18</td> <td>Set "Ct2" close and open in cooling</td> </tr> <tr> <td>24</td> <td>Set "tS" external (out)</td> </tr> </tbody> </table>	Step	Setup	14	Set "SPd" 1 speed (one digit near de fan)	15-16	Set "Ct1" close and open in cooling	17-18	Set "Ct2" close and open in cooling	24	Set "tS" external (out)	
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Remote duct sensor STC8-11



Technical Data	STC8-11
Description	Duct sensor for remote temperature reading. Can be used with a temperature controller TRO, TFC, TFH, TFP, EFC or EVC from Neptronic®
Sensor	NTC (negative temperature coefficient)
Resistor @ 25°C	10 KΩ (β 0-50 = 3575)
Dissipation constant	1 mW/°C
Maximum power rating	30 mW at 25°C [77°F] derated to 1 mW at 125°C [257°F]
Tolerance	±0.2°C from 0°C to 70°C [±0.36°F from 32°F to 158°F]

Sensor table

STC8-11 (10 KΩ)			
Temperature	Resistor KΩ	Temperature	Resistor KΩ
-40 °C [-40°F]	239.700	25°C [77°F]	10.0
-35 °C [-31°F]	179.200	30°C [86°F]	8.194
-30 °C [-22°F]	135.200	35°C [95°F]	6.752
-25 °C [-13°F]	102.900	40°C [104°F]	5.592
-20 °C [-4°F]	78.910	45°C [113°F]	4.655
-15 °C [5°F]	61.020	50°C [122°F]	3.893
-10 °C [14°F]	47.540	55°C [131°F]	3.271
-5 °C [23°F]	37.310	60°C [140°F]	2.760
0 °C [32°F]	29.490	65°C [149°F]	2.339
5 °C [41°F]	23.460	70°C [158°F]	1.990
10°C [50°F]	18.780	75°C [167°F]	1.700
15°C [59°F]	15.130	80°C [176°F]	1.458
20°C [68°F]	12.260		

Dimensions

Dimension	Imperial (in)	Metric (mm)
A	3.5	89
B	3	76
C	2.16	55
D	1.3	33
E	3.95	100
F	0.6	15
G	0.37	9.5
H	0.4	10

Recycling at end of life

	At end of life, please return the thermostat to your Neptronic® local distributor for recycling. If you need to find the nearest Neptronic® authorized distributor, please consult www.neptronic.com .
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