

**– Addendums For –
L-0634 SMX Series Control Systems User's Guide
For Coaches**

Insert #1

Coach SMX Online Cooling Only System with Auxiliary Heat
is an addendum to page 12.

& Insert #2

Coach SMX Online & Net Heat Pump Systems with AC or DC Aux Heat
is also an addendum to page 12.

Insert #3

Coach SMX Net & Online Programming
is an addendum to page 13.

Coach SMX Online Cooling Only System with Auxiliary Heat

4/23/97

<u>Mode</u>	<u>Button(s) Pressed</u>	<u>Description</u>
Cooling	Cool	Operates system in cooling mode. System equalization is accomplished by a two minute compressor restart delay. This delay begins with any compressor shut down due to inside temperature reaching setpoint, pressing Off, switching from Cool and Heat modes or loss of power. The delay can be increased, for staging multiple compressor start ups, by entering the Compressor Restart Delay code. The value displayed is "0" and can be adjusted in one second intervals from 0 to 70. This value is added to the permanent two minute delay. The delay countdown can be viewed by displaying Inside Temperature before a compressor shut down. Each displayed digit counts down in two second intervals.
Heating	Heat	Operates an auxiliary heater if installed. If an auxiliary heater is not installed, the Aux. Heat function must be disabled "--" by entering the code on the Coach SMX Online Programming chart.
Automatic Changeover	Cool & Heat	To operate in this mode both Cool and Heat buttons must be pressed simultaneously. When inside temp is above setpoint, the system will operate in Cooling and when inside temp is below setpoint, the auxiliary heater will operate.

Coach SMX Online & NET Heat Pump Systems with AC or DC Aux Heat

4/15/99

<u>Mode</u>	<u>Button(s) Pressed</u>	<u>Description</u>
Cooling	Cool	Operates system in cooling mode. System equalization is accomplished by a reversing valve. A compressor restart delay can be used, for staging multiple compressor start ups, by entering the Compressor Restart Delay code. The value displayed is "0" and can be adjusted in one second intervals from 0 to 70. The delay countdown can be viewed by displaying Inside Temperature before a compressor start up.
Heating	Heat (Press Once)	Operates the heat pump in heating mode. If an outside TSE and aux heater is installed, the system will perform an automatic changeover from heat pump heating to aux heat if the outside temperature drops below 40°F. This changeover temperature can be adjusted by following the Coach SMX Online Programming chart.
Auxiliary Heating	Heat (Press Twice)	Pressing the Heat key twice operates an AC or DC Heat auxiliary heater if installed. This mode is indicated by a flashing LED above the Heat key. If a DC heater is installed, the AC fan will be forced off while the DC heater and fan are operating. If an auxiliary heater is not installed, the Aux. Heat function must be disabled "--" by entering the code on the Coach SMX Online Programming chart.
Automatic Changeover	Cool & Heat (Press Once)	To operate in this mode both Cool and Heat keys must be pressed simultaneously. When inside temp is above setpoint, the system will operate in Cooling and when inside temp is below setpoint, the system will operate the heat pump in Heating. If operating in Heating mode, the automatic changeover from heat pump heat to aux heat will occur if the outside temperature is below 40°F and will automatically change back to heat pump heat when outside temp rises above 42°F.
Automatic Changeover W/Aux Heat	Cool & Heat (Press Twice)	To operate in this mode both Cool and Heat keys must be pressed twice simultaneously. When inside temp is above setpoint, the system will operate in Cooling and when inside temp is below setpoint, the system will operate the auxiliary heat only in Heating. This mode is indicated by the Cool LED remaining lit and the Heat LED flashing.

COACH SMX NET & ONLINE PROGRAMMING 4/15/99

Enter all programming codes by pressing OFF then SET then the code simultaneously. Raise and lower the value by pressing UP or DOWN. To exit the programming mode press OFF.

<u>FUNCTION</u>	<u>CODE</u>	<u>NEW P/N#</u>	<u>FACTORY SETTING</u>
EPROM VERSION	COOL & DOWN	42209-75 - 42209-77 -	65 = SMX Online heat pump w/ aux heat 67 = SMX Online cooling w/aux heat 74 = SMX NET heat pump w/ AC or DC aux heat 75 = SMX Online heat pump w/ AC or DC aux heat
EPROM REVISION	COOL & DOWN then UP		
AUX HEAT	SET & HEAT (pressing UP or DOWN toggles between "AH", "AF" & "--")		"AH" = AC aux heat, dx heating & cooling "--" = Operates in dx heating and cooling only "AF" = DC Aux heat with AC fan forced off, dx heating & cooling
COMPRESSOR RESTART DELAY	DOWN & SET & UP		"0" (Can be adjusted 0-70 seconds in 1sec intervals)
FAN DIFFERENTIAL	COOL & SLOW		4 = 4/8°F = 1/2°F PER FAN LED
COMPRESSOR DIFFERENTIAL	FAN & SLOW		12 = 12/8°F = 1 1/2°F (From setpoint)
AC LINE VOLTAGE	DOWN & UP		+5%
TEMPERATURE	SET & UP		±1% (Before entering code, view temperature to be calibrated.)
LOW FAN SPEED	DOWN & SET		32
HIGH FAN SPEED	SET & SLOW		60
CONTINUOUS OR INTERMITTENT FAN	DOWN & FAN & UP		"C" = Continuous Fan "I" = Intermittent Fan (Fan cycles with compressor.)

SMX ONLINE & NET HEAT PUMP W/ AC or DC AUX HEAT PROGRAMMING AND OPERATION

LOW OUTSIDE TEMP AUX HEAT CHANGEVER	TEMP & COOL	40°F (Switches from heat pump heat to AC or DC aux heat when outside temp is 40°F or less. Adjusted in 1°F increments.)
LOW OUTSIDE TEMP DIFFERENTIAL	TEMP & HEAT	2°F (Switches back to heat pump heat when outside temp is above 42°F. Adjusted in 1°F increments)

OPERATION

AUX HEAT ONLY	HEAT (Press Twice)	(Heat LED indicator will flash.)
HEAT PUMP HEAT ONLY	HEAT (Press Once)	(Heat LED indicator remains lit.)
AUTOMATIC CHANGEVER W/AUX HEAT	COOL & HEAT (Press Twice)	(Heat LED flashes and Cool LED remains lit.)
AUTOMATIC CHANGEVER HEAT PUMP HEAT	COOL & HEAT (Press Once)	(Heat LED and Cool LED remain lit.)

