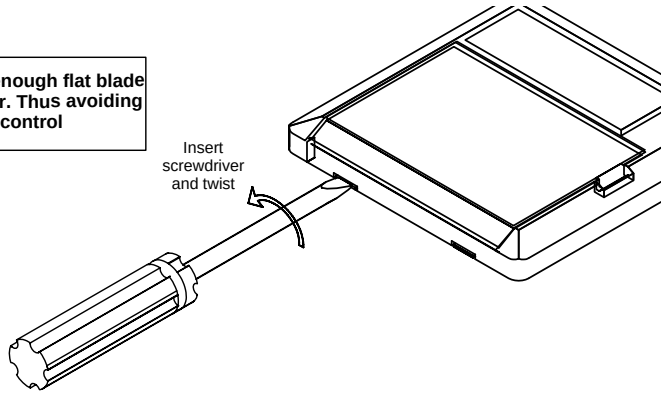
WALL CONTROL INSTALLATION

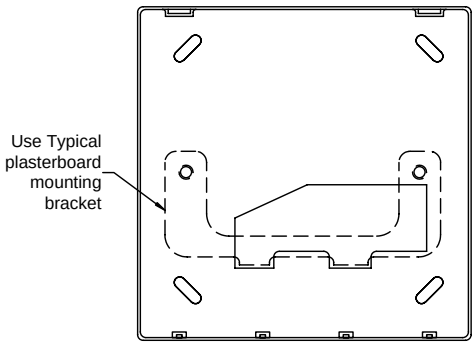
1 Install Wall Controller

1.1 Remove front cover

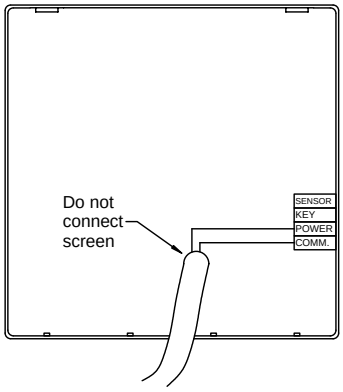
Use large enough flat blade screwdriver. Thus avoiding damage to control



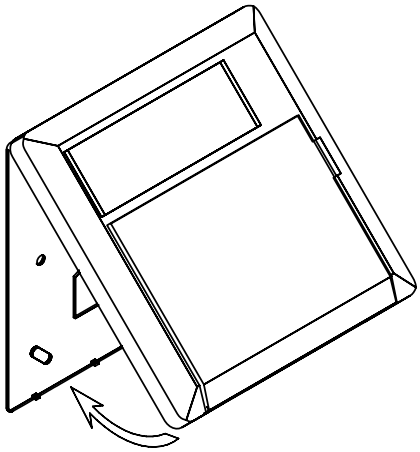
1.2 Mount back cover to wall.



1.3 Attach wiring to rear of control.



1.4 Attach front cover to back cover.



The C7 control does not utilize mimic logic.
Use one control per air conditioning system.

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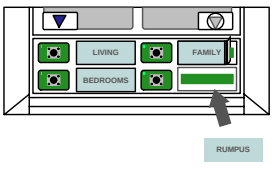
2 Zone labels

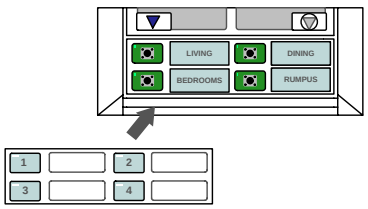
2.1 Adhere the selected zone labels in the wall control.



BEDROOM 2	FAMILY	OFFICE
BEDROOM 3	GAMEROOM	RUMPUS
BEDROOM 4	GUESTROOM	STUDY
BEDROOM 5	KITCHEN	UPSTAIRS
COMMON	LIVING	ZONE 1
DINING	LOUNGE	ZONE 2
DINING	MASTERBED	
DOWNSTAIRS	NIGHT	

4 - Zone Label Blocks

2.2 Adhere cover label on top of zone labels.

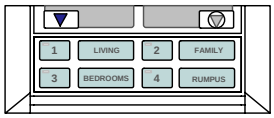


Cover Label

NOTE:

If zoning is not required in an installation. Blank cover label should be used to cover zone buttons.

2.3 Finish



DRG. No.	REVISION	REV. DATE
9015-002	A	16/10/06

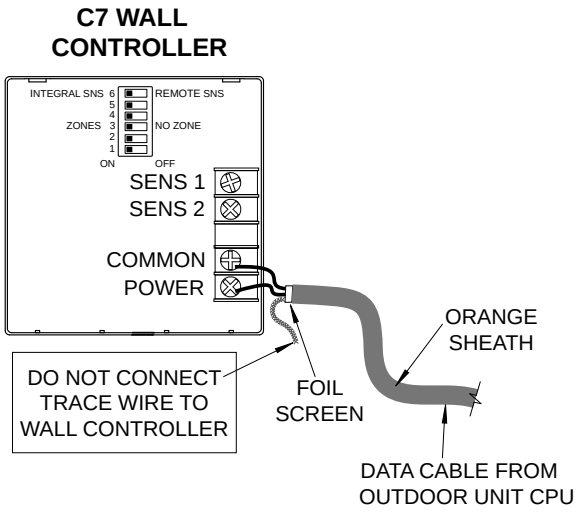
INSTALLATION WIRING DIAGRAM

C7 WALL CONTROLLER TEMPERATURE SENSOR WIRING

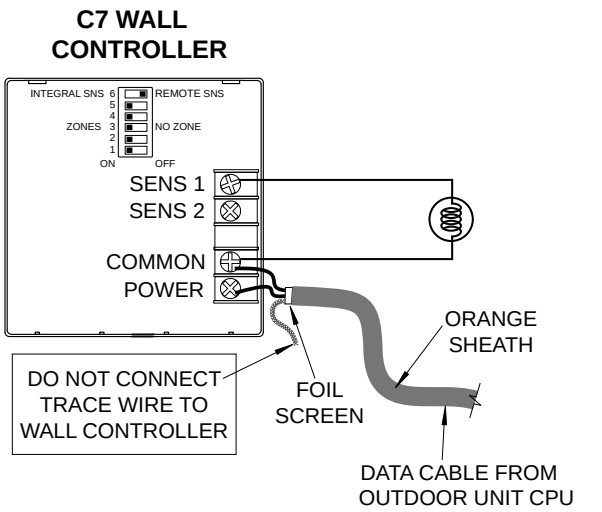
SPECIAL NOTES:

1. FOR BETTER RESPONDING TEMPERATURE CONTROL IT IS RECOMMENDED FITTING REMOTE WALL MOUNTED OR RETURN SENSORS.
2. PLEASE ENSURE THE DIP SWITCH IN THE OUTDOOR UNIT IS SELECTED TO 7-DAY.
3. DATA CABLE MUST BE 2 CORE 14/0.20 SCREENED CABLE.
4. REMOTE SENSOR CABLES MUST BE SCREENED WHEN RUN CLOSE TO ANY OTHER TYPE OF CABLES.

A: ONE ONBOARD SENSOR ONLY

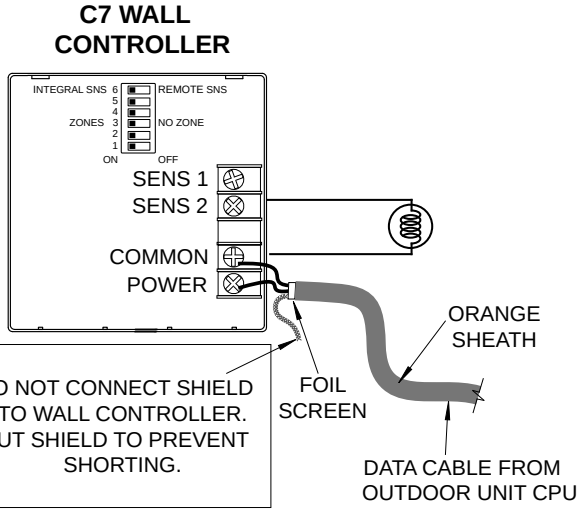


B: ONE REMOTE SENSOR ONLY

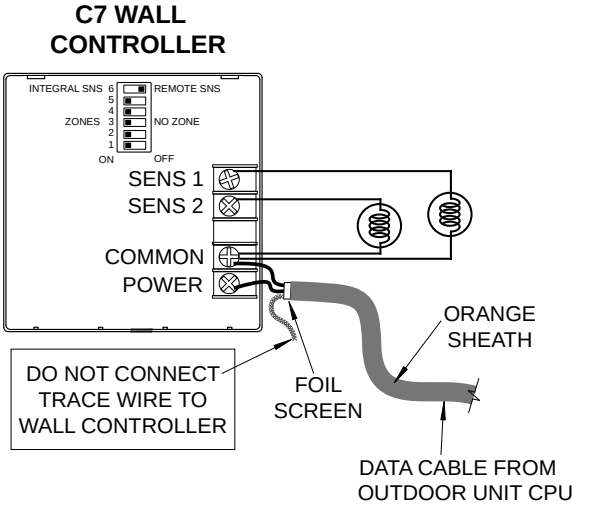


DIPSWITCH SETTING
CHANGE DIPSWITCH 6 FROM INTEGRAL SENSOR TO REMOTE SENSOR 1.

C: ONE ONBOARD AND ONE REMOTE SENSOR



D: TWO REMOTE SENSORS



DIPSWITCH SETTING
CHANGE DIPSWITCH 6 FROM INTEGRAL SENSOR TO REMOTE SENSOR 1.

NOTES:

1. WHEN REMOTE SENSOR IS USED AS SENSOR 1, DIS-ABLE ONBOARD SENSOR VIA DIP SWITCH 6 ON WALL CONTROL PAD. (AS SEEN IN B CONFIGURATION)
2. WITH ZONED SYSTEM USING TWO SENSORS, SUCH AS IN DOMESTIC APPLICATIONS:
   ZONE 1 IS ALWAYS ASSIGNED TO SENSOR 1 (EITHER WALL CONTROLLER ONBOARD SENSOR OR REMOTE SENSOR 1).
   ZONE 2, 3 OR 4 CAN BE ASSIGNED TO SENSOR 1 OR SENSOR 2. SELECTION ENTRY VIA OPERATING INSTRUCTIONS 9005-006.
   WHEN TWO SENSORS ARE IN CIRCUIT, THE COMBINED TEMPERATURE READINGS WILL BE AVERAGED.
3. NON ZONED SYSTEMS USING TWO SENSORS, SUCH AS COMMERCIAL APPLICATION:
   THE COMBINED TEMPERATURE READINGS OF THE TWO SENSORS WILL BE AVERAGED.

ENABLING / DISABLING ZONES AND ASSIGNING SENSORS

(1) ENABLING / DISABLING ZONES

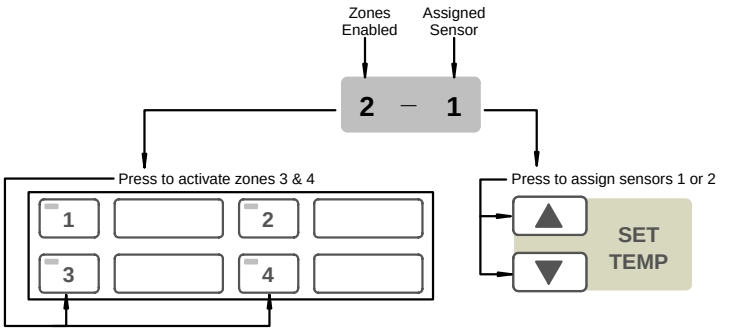
NOTE: 1 **Make sure the controller is off before proceeding. If dipswitch 3 is not on zone setup menu will not function.**

1.1 Turn A/C OFF at wall control first.

1.2 Press and hold EXIT button, then press the TIMECLOCK/PROGRAM button. Release both buttons together. The AUTO/HEAT/COOL lights should now be flashing to indicate you are in the "setup" menu.

1.3 Press the PROGRAM button once until 2-1 is showing in the digital display.

NOTE: 2 **Zone Enabled = Zone light and relay will function when relevant zone button is pressed.**
Zone Disabled = Zone light and relay will "NOT" function when relevant zone button is pressed.



NOTE: 3 **Zones 1 and 2 are always enabled and can not be disabled.**

1.4 To enable zones 3 or 4 or (both 3 and 4) press the relevant zone button and the digital display will change to show the number of zones enabled.

1.5 To exit, press the TIMECLOCK/PROGRAM button until the set temp or temp point is shown in the digital display.

(2) ASSIGNING SENSORS TO ZONES

NOTE: 1 **Each zone (except 1) can be assigned to use either sensor 1 or sensor 2.**
Zone 1 is automatically assigned to sensor 1 and can not be changed.

2.1 Turn A/C OFF at wall control first.

2.2 Press and hold EXIT button, then press the TIMECLOCK/PROGRAM button. Release both buttons together. The Auto/Heat/Cool lights should now be flashing to indicate you are in the "setup" menu

2.3 Press the TIMECLOCK/PROGRAM button once until 2-1 is showing in the digital display.

2.4 Select the zone you wish to assign sensor for.

2.5 Press the set temp UP /DOWN arrow keys to select between sensor 1 and 2.

2.6 Repeat steps 2.1 to 2.5 for each zone.

2.7 To exit, press the TIMECLOCK/PROGRAM button until the set time or temp point is shown in the digital display.

SPECIAL NOTE: **Before exiting this menu, make sure the digital display is showing the correct number of zones you require enabled.**

E.g. 1) 4 - 1 upon exit = 4 zones enabled

E.g. 2) 3 - 1 upon exit = 3 zones enabled

E.g. 3) 2 - 1 upon exit = 2 zones enabled

ActronAir®

CONDENSING UNIT SINGLE STAGE WITH C7-3 WALL CONTROL

SINGLE STAGE WITH OPTIONAL ZONE CONTROL (CZ)

REV.	REV. DATE	DRAWING NUMBER
	08/06/06	WD0166

NOTE

C7 Controller will work on single and 2 stage but not 3 stage units.
C7-3 Controller will work single, 2 and 3 stage units.

Dipswitchs on back of Wall Control

Not Used dipswitchs default to "ON" position

1	2	3	4	5	6
Not Used	Not Used	When using Actron Air Optional zone control panel (CZ)	Not Used	Not Used	Internal or "Onboard" Sensor is SNS1
Not Used	Not Used	When not using Actron Air Optional zone control panel (CZ)	Not Used	Not Used	Remote sensor is to be wired into SNS1

ON — OFF

SINGLE STAGE CONDENSER WIRING

CONDENSER CPU BOARD
CPU D411D

NEUT
COMP
LP
LP
HP
HP
REV
NEUT
NEUT
LOW
HIGH
ACT
NEUT
EARTH

240V AUX. ACT NEUT
240V VOLT FAN HIGH LOW NEUT
STD 24HR TIMER 7-DAY TIMECLOCK
EXTRA LOW VOLTAGE MANUAL INPUTS AND OUTPUT COMP FAN HEAT 15V
EXTRA LOW VOLTAGE ELECTRONIC WALL CONTROL DATA COM/ SCREEN

SET TO 7-DAY

IF USED

FIELD WIRING

WALL CONTROL
INTEGRAL SNS 6 5 4 3 2 1 REMOTE SNS 1
ZONES NO ZONES
ON OFF
Common Power
SEN 1 SEN 2
Integral Sensor

Do not connect the trace wire at the wall controller

OPTIONAL ZONE CONTROL INTERFACE PANEL
EARTH EARTH EARTH NEUT ACT
DATA DATA COMM. COMM.
ZONE 1 NEUT N/O N/C
ZONE 2 NEUT N/O N/C
ZONE 3 NEUT N/O N/C
ZONE 4 NEUT N/O N/C

ZONE MOTORS

IF USED

NEUT LOW HIGH EARTH
INDOOR FAN
INTERNAL AUTO RESET OVERLOAD PROTECTION
CAPACITOR

CABLE MUST BE 2 CORE 14/0.20 SCREENED CABLE WITH TRACE WIRE CONNECTED TO THE SCREEN/ COMMON TERMINAL

OPTIONAL SENSOR 1
OPTIONAL SENSOR 2

If using remote sensor for Sensor 1 allocate Dipswitch 6 to Remote SNS1.

If using Onboard sensor only allocate Dipswitch 6 to Integral SNS.

If using Onboard and remote sensor, allocate Dipswitch 6 to Integral SNS and wire in optional sensor to SEN 2 and Common.

If using 2 Remote sensors, allocate dipswitch 6 to Remote SNS 1.

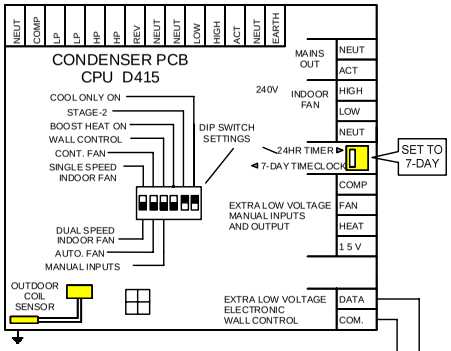
CONDENSING UNITS 2/3 STAGES with C7-3 controller

REV.	REV. DATE	DRAWING NUMBER
	27/06/06	WD0164

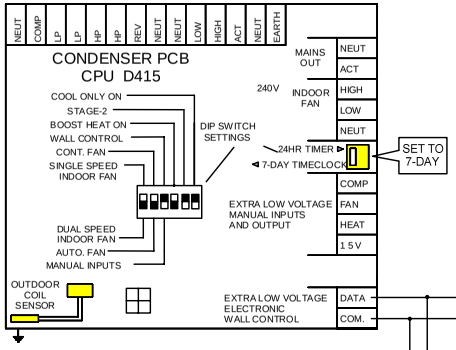
ActronAir®

2 STAGE CONDENSER WIRING

STAGE 1 PCB

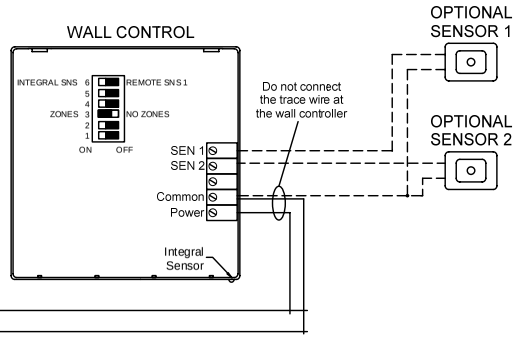


STAGE 2 PCB



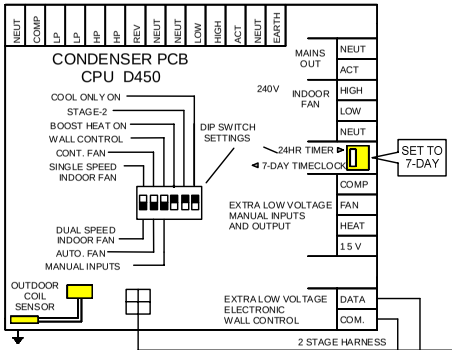
WIRE CONNECTED TO THE SCREEN / COMMON TERMINAL

FIELD WIRING

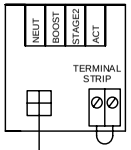


3 STAGE CONDENSER WIRING

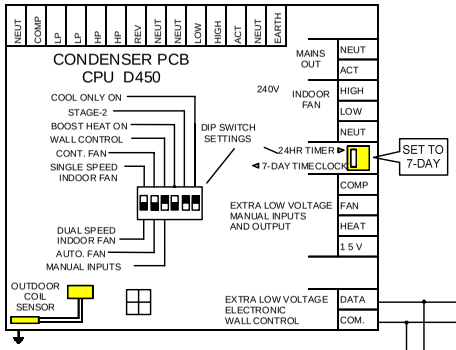
STAGE 1 PCB



STAGE 2 PCB



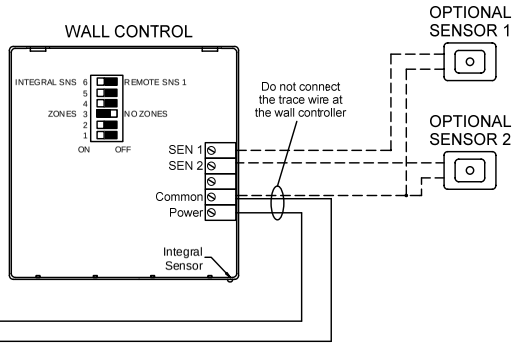
STAGE 3 PCB



2 STAGE HARNESS

CABLE MUST BE 2 CORE 14/0.20 SCREENED CABLE WITH TRACE
WIRE CONNECTED TO THE SCREEN / COMMON TERMINAL

FIELD WIRING



CONDENSING UNITS 2 STAGES WITH C7-3 WALL CONTROL

REV.	REV. DATE	DRAWING NUMBER
	27/06/06	WD0165

ActronAir®

WALL CONTROL DIP SWITCH & SENSOR SETTINGS

NOTE

C7 Controller will work on single and 2 stage but not 3 stage units. C7-3 Controller will work single, 2 and 3 stage units.

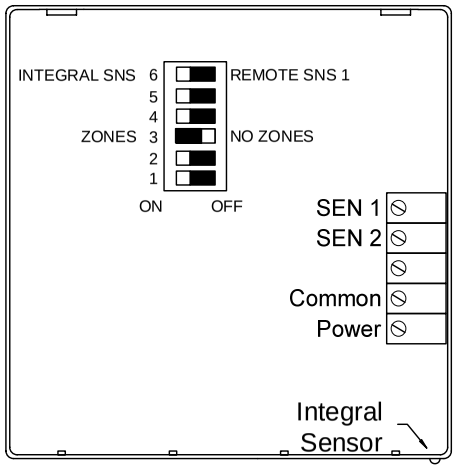
Dipswitchs on back of Wall Control

Not Used dipswitchs default to "ON" position

Internal or "Onboard" Sensor is SNS1	6	Remote sensor is to be wired into SNS1
Not Used	5	Not Used
Not Used	4	Not Used
When using Actron Air Optional zone control panel (CZ)	3	When not using Actron Air Optional zone control panel (CZ)
Not Used	2	Not Used
Not Used	1	Not Used

ON — OFF

WALL CONTROL



If using remote sensor for Sensor 1 allocate Dipswitch 6 to Remote SNS1.

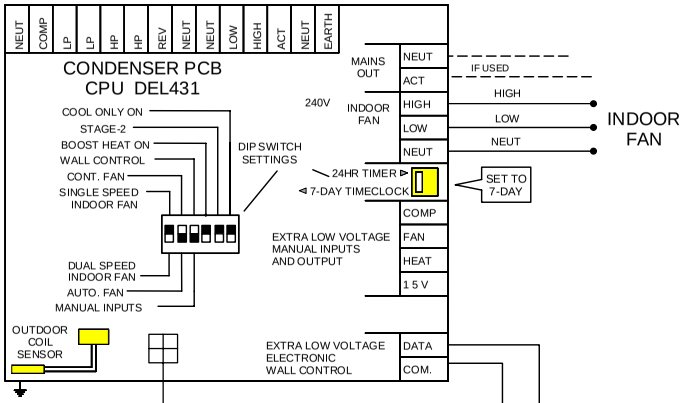
If using Onboard sensor only allocate Dipswitch 6 to Integral SNS.

If using Onboard and remote sensor, allocate Dipswitch 6 to Integral SNS and wire in optional sensor to SEN 2 and Common.

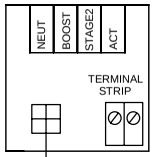
If using 2 Remote sensors, allocate dipswitch 6 to Remote SNS 1.

2 STAGE CONDENSER WIRING

STAGE 1 PCB

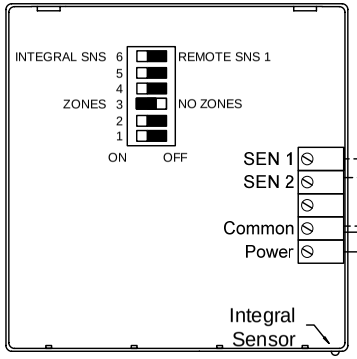


STAGE 2 PCB



FIELD WIRING

WALL CONTROL



Do not connect the trace wire at the wall controller

OPTIONAL SENSOR 1

OPTIONAL SENSOR 2

CABLE MUST BE 2 CORE 14/0.20 SCREENED CABLE WITH TRACE WIRE CONNECTED TO THE SCREEN / COMMON TERMINAL