

GENERIC DIGITAL INPUT SETUP

INPUT - SETUP	
Main S tatus	
Name: Oil Fail Comp 1	Bd/Pt 03/10
Input Type: Digital Input	
Alarm Setpoints	
Alarm if OPEN after 5 min.	
[No] Automatic Reset?	
Alarm Disable Input (Bd/Pt) 00/00	
Press ↓ to edit or select for list	

To get here from the Main screen:

When adding a digital generic input:

Press the "I" key (I/O), then press the "I" key (add Input) to add a generic input. Then press the "↓" key (down arrow key) until on the Input Type field. Then press the "spc" key until "Digital Input" is available. Once "Digital Input" is available, press the "↓" key (down arrow key) once and the screen will change for the digital generic input settings.

When editing a digital generic input:

Press the "I" key (I/O), then press the "↓" key (down arrow key) to move to the desired generic input. Once the desired input is highlighted, then press the "E" key (Edit).

Menu selections:

- Main - show the group 1 status screen
- Status - shows status of the generic inputs and outputs

Purpose:

This screen is used to either add a generic input or edit an existing one. This example shows a digital generic input.

Function:

Once the Input Type is changed to Digital Input and "↓" key (down arrow key) is pressed, the screen changes to the example above.

Field Information:

<i>Name</i>	This is the name of the generic input. It can be up to 20 characters.
<i>Bd/Pt</i>	This is the board and point location of the generic input sensor.
<i>Input Type</i>	This is the type of sensor used to provide the reading for the generic inputs. On this screen, it will be "Digital Input"
<i>Alarm Setpoints</i>	This indicates whether the input will alarm if OPEN or CLOSED after a time delay in minutes.
<i>Automatic Reset</i>	This feature (if selected with "Yes") will automatically reset the alarm when the control value returns to its normal operating range.
<i>Alarm Disable Input</i>	This board and point location allows a digital signal to automatically disable this alarm.

GENERIC OUTPUT SETUP

OUTPUT - SETUP	
Main S tatus	
Name: Motor Room Exh. Fan Bd/Pt 03/07	
Output is Energized when Off	
Setpoints	
Primary	On at 80 after 20 sec.
	Off at 70 after 20 sec.
Secondary	On at 0 after 0 sec.
	Off at 0 after 0 sec.
Control Input: Motor Room Temp.	
Control Schedule: None	
Press ↓ to edit or select for list	

To get here from the Main screen:

When adding a generic output:

Press the "I" key (I/O), then press the "O" key (add Output) to add a generic output.

When editing an generic output:

Press the "I" key (I/O), then press the "↓" key (down arrow key) to move to the desired generic output. Once the desired output is highlighted, then press the "E" key (Edit).

Menu selections:

- Main - show the group 1 status screen
- Status - shows status of the generic inputs and outputs

Purpose:

This screen is used to either add a generic output or edit an existing one. The term "generic" is used here to indicate that the input or output can be used for almost any purpose, i.e., temperature, pressure, humidity, etc.

Function:

The generic output setpoints and other pertinent generic output information is set using this screen. When all information has been entered or changed here, press the "S" key (Status) to return to the generic input and output status display (after pressing the "menu" key to return to the menu items).

Field Information:

<i>Name</i>	This is the name of the generic output. It can be up to 20 characters.
<i>Bd/Pt</i>	This is the board and point location of the generic output relay.
<i>Output Energized</i>	This indicates whether the relay point has been wired for this generic output relay to "fail closed" (Normally Closed) or "fail open" (Normally Open). If the relay point has been wired to "fail closed", this field should be 'Off'. If the relay point has been wired to "fail open", this field should be 'On'.
<i>Primary Setpoints</i>	These are the primary on and off settings for the output with time delays in seconds. The control value is determined by the Control Input selected as described below.
<i>Secondary Setpoints</i>	These are the secondary on and off settings for the output with time delays in seconds. The control value is determined by the Control Input selected as described below. The Secondary Setpoints will be set for use in Schedule Setup .
<i>Control Input</i>	This is where the controlling input for this output is selected. Once on this field, press the "spc" key to toggle through all available inputs until the one desired is displayed. NOTE: The Control Value from the input selected will then control this output. Control Value is detailed in Input - Setup .
<i>Control Schedule</i>	This is where the schedule (if used) for this output is selected. Once on this field, press the "spc" key to toggle through all available schedules until the one desired is displayed. The schedules are described in detail in Schedule Setup .

GENERIC OUTPUTS OVERRIDES

OVERRIDES - OUTPUTS							
Main <input checked="" type="radio"/> Compressor <input checked="" type="radio"/> Condenser							
Outputs							
1	Norm	9	Norm	17	Norm	25	Norm
2	Norm	10	Norm	18	Norm	26	Norm
3	Norm	11	Norm	19	Norm	27	Norm
4	Norm	12	Norm	20	Norm	28	Norm
5	Norm	13	Norm	21	Norm	29	Norm
6	Norm	14	Norm	22	Norm	30	Norm
7	Norm	15	Norm	23	Norm	31	Norm
8	Norm	16	Norm	24	Norm	32	Norm
Press ↓ to edit or select for list							

To get here from the Main screen:

Press the "O" key (Overrides), then press the "O" key (generic Outputs).

OR

Or, if already in Generic I/Os Status screen, press the "↓" key (down arrow key) to the desired output to override and then press the "V" key (oVerride). This screen will be detailed at the end of this section.

Menu selections:

- Main - show the group 1 status screen
- Compressor - allows overriding of suction group outputs
- Condenser - allows overriding of condenser fans

NOTE: Defrost and Solenoid overrides are not in this menu item. Those overrides are in the Circuits menu item on the main screen.

Purpose:

Allows you to manually override any generic output. This can be used during setup of the system to insure proper wiring.

Function:

To override a generic output, you must press the down-arrow. The "Stat" or status field of the output will be highlighted. Press the "↓" key (down arrow key) or "↑" key (up arrow key) until you get to the desired output. You have a couple of options to set the output to the desired state.

You can press the "spc" key and the status will cycle from "Norm" (normal operation), to Off, then to On, and finally back to Norm. When the status is at the desired state, press the "↓" key (down arrow key) or "↑" key (up arrow key) to move to the next output. When you are finished, press the "menu" key.

OR

If using the Overrides selection from the I/O Status Screen, it will operate as follows: in Generic I/Os Status screen, press the "↓" key (down arrow key) to the desired output to override and then press the "V" key (oVerride).

I/O STATUS				12:50 PM
Main Add Input Add Output Linear Setup		Schedule Status		
#	I/O Name	Status	-Set	On
1	AI Motor Room Temp.	83		
1	DO Motor Rm Exhaust Fan	On		
2	DI Oil Fail Comp 1 Alarm	Open		
3	DI Oil Fail Comp 2 Alarm	Open		
4	DI Oil Fail Comp 3 Alarm	Open		

Override On
 Override Off
 Cancel Override
 Escape

Delete
Edit
Log
Override

After pressing the "V" key (oVerride) to get the screen above, select the appropriate choice.

Field Information:

- Override On* This will override this digital output ON.
NOTE : This is a fixed override. This will stay in override until it is manually taken out of override.
- Override Off* This will override the digital output OFF. **NOTE : This is a fixed override. This will stay in override until it is manually taken out of override.**
- Cancel Override* Allows you to cancel the generic output override for the output selected.
- Escape* Allows you exit this override menu without placing a digital output into override.

LINEAR TYPE SENSOR SETUP

LINEAR TYPE - SETUP	
Main I /O Status	
Name Linear Type 1	
Low Error Voltage	00.00V
High Error Voltage	00.00V
Lower Operating Voltage:	
At 00.00V, Display	0
Upper Operating Voltage:	
At 00.00V, Display	0
Name Linear Type 2	
Low Error Voltage	00.00V
High Error Voltage	00.00V
Lower Operating Voltage:	
At 00.00V, Display	0
Upper Operating Voltage:	
At 00.00V, Display	0
Press ↓ to edit or select for list	

To get here from the Main screen:

To edit one of the two available linear type sensors, press the "I" key (I/O), then press the "L" key (Linear Setup).

Menu selections:

- | | |
|------------|--|
| Main | - show the group 1 status screen |
| I/O Status | - shows status of the generic inputs and outputs |

Purpose:

This screen is used to edit one of the two available Linear Types of sensors.

Function:

This option allows for the customizing of up to two linear type sensors. These two sensors are available in the Input Setup (for generic inputs) screen under Input Type. When all information has been entered or changed here, press the "I" key (I/O Status) to return to the generic input and output status display (after pressing the "menu" key to return to the menu items).

Field Information:

- | | |
|---------------------------|---|
| <i>Name</i> | This is the name of this linear type sensor. It can be up to 20 characters. |
| <i>Low Error Voltage</i> | This is the low reading at which the sensor will read as an error. |
| <i>High Error Voltage</i> | This is the high reading at which the sensor will read as an error. |

Lower Operating Voltage

This indicates the display value at the lowest operating voltage.

Upper Operating Voltage

This indicates the display value at the highest operating voltage.

This is a linear relationship between the lower and upper operating voltages. Any voltage reading between the lower and upper voltages will have a linear relationship with these operating voltages.

SCHEDULE STATUS

SCHEDULE STATUS		12:50 PM
Main I /O Status A dd Schedule		
#	Schedule Name	Status
1	EXHAUST FAN	ON
2	LIGHTING CONTROL	OFF
D elete E dit		

To get here from the Main screen:

To view, edit or delete schedules, press the "I" key (I/O), then press the "S" key.

Menu selections:

- Main - show the group 1 status screen
- I/O Status - shows status of the generic inputs and outputs

Purpose:

This screen is used to view the status all of the ten available schedules.

Function:

Viewing the status of a schedule and moving to the editing screen for any schedule are available on this screen. To move to a specific schedule, press the "↓" key (down arrow key) until the

desired schedule is highlighted. The Delete and Edit options will be available on the bottom of the screen.

NOTE: Be sure the correct schedule is highlighted before pressing the Delete or Edit selections. If you do not wish to edit or delete, then press the "I" key (I/O Status) to return to the generic input and output status display.

Field Information:

This is the schedule number (1 through 10).
Schedule Name This is the name of this schedule. It can be up to 20 characters.
Status This is the current status of this schedule.

SCHEDULE SETUP

SCHEDULE - SETUP			
Main S status			
Schedule Name: EXHAUST FAN			
Event #	Day	Time	Action
1	MON	9:00AM	ON
2	MON	10:00PM	OFF
3	DAILY	9:00AM	PRIM
4	DAILY	6:00AM	SEC
5	None	12:00AM	OFF
6	None	12:00AM	OFF
7	None	12:00AM	OFF
8	None	12:00AM	OFF
9	None	12:00AM	OFF
10	None	12:00AM	OFF
11	None	12:00AM	OFF
12	None	12:00AM	OFF
13	None	12:00AM	OFF
14	None	12:00AM	OFF
15	None	12:00AM	OFF
16	None	12:00AM	OFF

Press ↓ to edit or select for list

To get here from the Main screen:

When adding a schedule:

Press the "I" key (I/O), then press the "A" key (Add Schedule) to add a new Schedule.

When editing or deleting a schedule:

Press the "I" key (I/O), then press the "S" key (Schedule Status) "↓" key (down arrow key) to move to the desired schedule. Once the desired schedule is highlighted, then press the "E" key to Edit or the "D" key to Delete.

Menu selections:

Main - show the group 1 status screen
 Status - shows status of the schedules

Purpose:

This screen is used to edit the settings of any of the ten available schedules.

Function:

To edit the settings for this schedule, press the “↓” key (down arrow key) until the desired setting is highlighted.

Field Information:

<i>Schedule Name</i>	This is the name of this schedule. It can be up to 20 characters.
<i>Event #</i>	This is the event number (1 through 16) for this specific schedule.
<i>Day</i>	This is the day the event will take place. The choices available are: MON = Monday TUE = Tuesday WED = Wednesday THU = Thursday FRI = Friday SAT = Saturday SUN = Sunday MON-FRI = Monday through Friday DAILY = Every day SAT-SUN = Saturday and Sunday 0 / 00 / NA = A specific date to occur every year This NA feature will specify a date that a schedule will occur every year on that date.
<i>Time</i>	None = No event specified This is the time of day the event will take place. (AM and PM are used for morning and afternoon hours).
<i>Action</i>	This is the action to take place when the time and day conditions are met. The choices available are: ON = Turns the Output ON OFF = Turns the Output OFF PRIM = Uses Primary Setpoints SEC = Uses Secondary Setpoints

HISTORY

ALARM LOG

LOGS - ALARM				
Main Data Group1-Runtime Acknowledge				
Ack	Date	Time	Alarm Type	Gr
NO	6/15	12:00AM	Power Restored	
NO	6/15	12:00AM	Power Failed	
YES	6/14	01:25PM	High Suction	

Press ↓ to edit or select for list

To get here from the Main screen:

Press the "H" key.

Menu selections:

- Main - show the group 1 status screen
- Data - shows the data log which contains suction, discharge, etc.
- Group1_Runtime - runtimes for outputs of suction group 1 and able to select group 2, group 3 and the condenser from this selection.

Purpose:

Allows viewing of alarm log and data log.

Function:

This screen shows the alarm log. When this screen is first shown, the ack, date, time, and alarm type fields are shown. However this is a virtual screen, which means that there is more information than will fit on the screen. You can see the other information in the alarm log by pressing the down-arrow from the menu and then pressing the right-arrow key. By doing this, you can see the suction group the alarm is in, the date and time an alarm was acknowledged and by whom. To move back to the left, press the left-arrow key.

To get back to the menu, press the yellow "menu" key.

DATA LOG

LOGS - DATA						
Main Alarm Graphs						
→Date	Time	Suct1	Case	Speed	Suct2	C
11/15	12:10AM	8	15	0	5	
11/15	12:05AM	9	15	0	4	
11/15	12:00AM	8	15	0	5	
11/15	11:55AM	7	14	0	4	
11/15	11:50AM	7	14	0	4	
11/15	11:45AM	8	15	0	5	
11/15	11:40AM	8	15	0	6	
11/15	11:35AM	9	16	0	6	
11/15	11:30AM	8	16	0	4	
11/15	11:25AM	9	15	0	5	
11/15	11:20AM	8	15	0	5	
11/15	11:15AM	9	15	0	4	
11/15	11:10AM	9	14	0	3	
11/15	11:05AM	8	15	0	5	
11/15	11:00AM	8	15	0	5	

Press ↓ to edit or select for list

To get here from the Main screen:

Press "H" (history), then "D" (data).

Menu selections:

- Main - show the group 1 status screen
- Alarm - returns to the alarm log screen

Purpose:

This screen allows you to view a history of the suction pressure, discharge pressure, rack status and other information which is logged at each log interval.

Function:

This screen shows the data log. When this screen is first shown, the date, time, suction pressure, lead case temperature, variable speed compressor for group 1 and the suction pressure for group 2 is available. However this is a virtual screen, which means that there is more information than will fit on the screen. You can see the other information in the data log by pressing the "↓" key (down arrow key) from the menu and then pressing the "→" key (right arrow key). By doing this, you can see more information which was logged. To move back to the left, press the "←" key (left arrow key). To get back to the menu, press the "menu" key.

Meanings for the data log headers are:

Date	- date this log was taken
Time	- time this log was taken
Suct1	- suction pressure for group 1
Case	- case temperature for group 1
Speed	- if variable speed, shows speed when log taken
Suct2	- suction pressure for group 2 (if used)
Case	- case temperature for group 2 (if used)
Speed	- if variable speed, shows speed of group 2 variable compressor
Suct3	- suction pressure for group 3 (if used)
Case	- case temperature for group 3 (if used)
Speed	- if variable speed, shows speed of group 3 variable compressor
Liquid	- shows liquid level (if used)
Disch	- discharge pressure
Drop	- drop-leg temperature
CndSp	- speed of variable speed condenser fan (if used)
Outdr	- outdoor air temperature (if used)
Compressor	- shows status of outputs. Counting from left to right you will see three groups or 12 digits under the compressor status section. These indicate the status for group1, group2 and group3 respectively. If an output was on, a "1" will show in the group1column. A "2" will show in the group2 column and a "3" in the group3 column. If the output was off, a "-" will be displayed.
Fan Status	- show the status of the compressor outputs. A "-" indicates that the output is off, a "1" or "2" means the output was on.

GRAPHING

Graphing selection screen:

GRAPH SELECTION	
Main	Previous Graph
Graph 1: Group 1 Suction	
Graph 2: Group 1 Case	
Graph 3: Discharge	
Press ↓ to edit or select for list	

To get here from the Main screen:

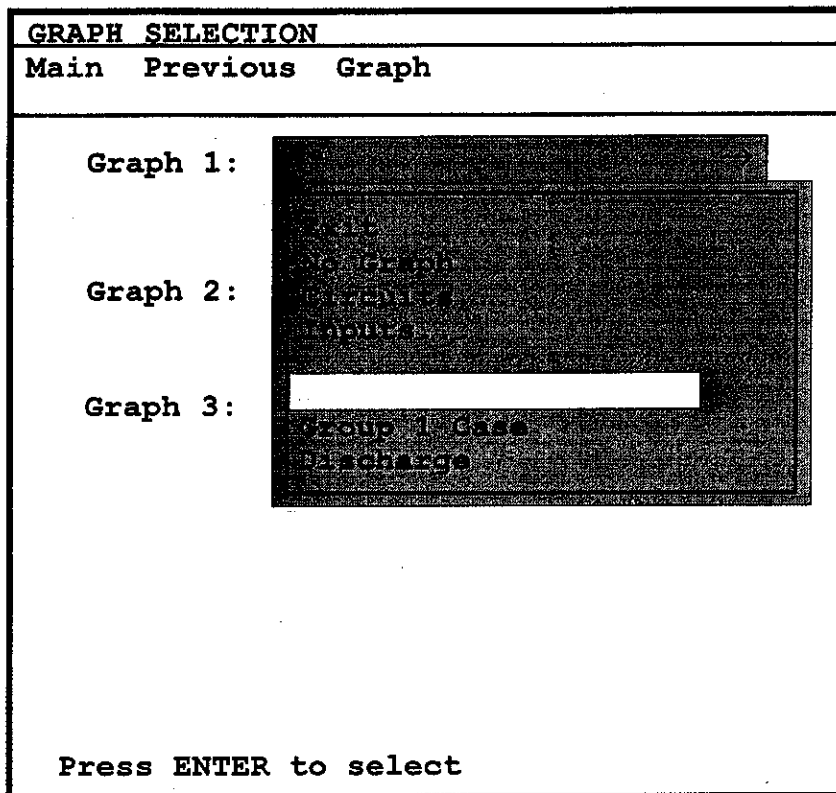
Press "H" (History), then "D" (Data), then "G" (Graphing)

Access is available in the Circuits menu under the Logs of the case temperatures and is accessible in the Logs of the Generic I/O's (generic inputs and outputs). These different paths to the Quick Graph feature are placed in to make it easier to get to the graphing from many different locations in the Performer™ Rack Controller.

Menu selections:

- | | |
|----------|--|
| Main | - show the group 1 status screen |
| Previous | - returns to the previous screen |
| Graph | - graph the inputs listed on this screen |

After pressing "↓" down arrow key to select from the lists, the screen will change to the following to select the inputs to graph.



Purpose:

This screen allows you to choose the different inputs to place on the graph.

Function:

This screen allows the selection of up to 3 inputs to be placed in the graph. These 3 inputs can be from the rack functions, circuit case temperatures or a generic analog input.

After pressing the “↓” key (down arrow key) from the menu and then pressing the “→” key (right arrow key) to select an input to graph, the selection list above will be available. The available options are as follows:

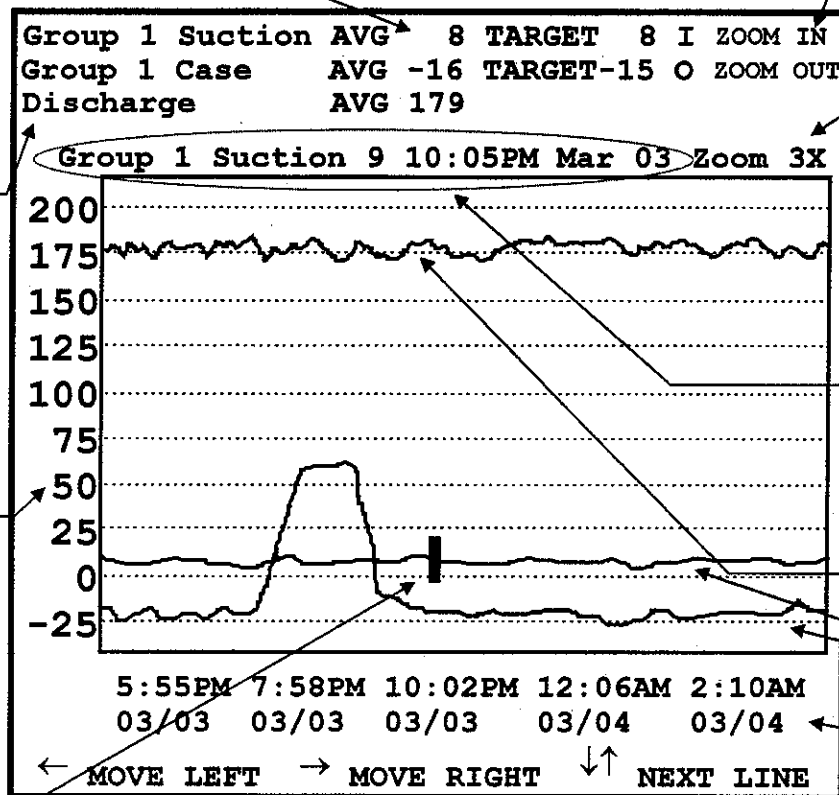
- Exit - exits from this list without changing
- No Graph - no input will be selected for this graph item
- Circuits... - switches to all the circuit inputs available to graph
- Inputs... - switches to all the generic inputs available to graph
- Racks... - (not shown) switches to all the rack inputs available to graph

All Information below this dashed line ↑ (on the screen above) are the available inputs to graph in either the Racks..., the Circuits... or the Inputs... groups.

ENTER- press “ENTER” key to when final selection is ready.

Simply use the up and down arrow keys to choose the group of inputs and then the individual input below the dashed line that is to be graphed. After pressing ENTER, then press the “G” key (Graphs) to graph up to 3 inputs selected.

View rack inputs, circuit temperatures and generic analog inputs



Quick Graph automatically displays the average of the logged inputs and the targets (if assigned a target).

Overlay up to 3 inputs for graphing from rack inputs, case temperatures or generic inputs.

Quick Graph automatically sets up the display with the correct intervals for the graph to display all information.

Quick Graph Cursor - move around the graph with the arrow keys to find a specific logged reading from one of the 3 graphs on screen.

Use the yellow arrow keys to move the cursor from one graph to another or across readings on one graph.

Zoom in and out by pressing the "I" to Zoom In and the "O" to Zoom Out.

Zoom in up to 5 times magnification.

Quick Graph will display any actual logged reading, time and date from any of the up to 3 inputs overlaid on this graph. The cursor position on the graph will determine the which reading is displayed.

Overlay up to three graphs on a single screen.

Date and Times of the graph above.

Hold down the "ALT" key and then press the "<" or ">" arrow keys to jump across pages of this graph. Hold down the "SHIFT" key and press the "<" or ">" arrow keys to jump over a few logged readings on this graph.

Purpose:

This screen allows you to view up to 3 inputs graphically on one screen.

Function:

The Quick Graph feature on the Performer™ will allow up to 3 graphs to be overlaid on a single screen. You will be able to zoom in and out up to 5 times and see the actual readings, time and date of each graphed item. This screen will also allow you to use the cursor to see any logged reading quickly and easily while on the graphing screen. All inputs displayed will have the average and targets (if a target is used) displayed on the screen of each input.

SYSTEM SETUP

NOTE: Setup allows options to be set and information about the rack to be entered. This **must** be checked before the PERFORMER™ is allowed to control a rack.

SYSTEM - SETUP	
Main	Targets
Compressor	Condenser
Inputs	Network
Subcooler	Dialout
Password	
Clock	
Set Date: 11/15/95 Time: 1:00 AM	
Daylight Savings	
Begins: 4/02/95 Ends: 10/29/95	
4/07/96 10/27/96	
4/06/97 10/26/97	
4/05/98 10/25/98	
4/04/99 10/31/99	
Location Information	
Site Name: Encore	
Unit Name: Rack A	
Refrigerant Type: R-22	
Rack Type: Single Header	
Log Interval: 5 Mins	
Communications	
Unit ID 01	
Baud Rate 9600	
Connect type Encore	
Press ↓ to edit or select for list	

To get here from the Main screen:

Press the "S" key.

Menu selections:

- | | |
|------------|--|
| Main | - show the group 1 status screen |
| Target | - allows targets or alarm setpoints for the group to be set or changed |
| Compressor | - setup suction group 1 (group 2 or 3, if used).
Detailed in COMPRESSOR SETUP section. |
| Condenser | - setup or make changes to condenser control.
Detailed in CONDENSER SETUP section. |
| Inputs | - setup board/point numbers for discharge and other sensors |
| Network | - shows status of the network.
Detailed in NETWORK STATUS section. |
| Subcooler | - set up to 3 subcooling stages.
Detailed in SUBCOOLER SETUP section. |
| Dialout | - set up to 8 numbers to dialout and set which numbers to dial during the
day and evening |
| Password | - set up to 10 passwords and assign levels for other users |

Purpose:

Use this screen to set the PERFORMER™ clock, daylight savings times, communications ID and other “system” information.

Function:

To make changes on this screen, press the down-arrow. Set the date and time by using the down-arrow key to move to the date and time fields. When a field is highlighted, use the number keys to set it. Do the same for daylight savings. They can be set for up to five years in advance.

The “location information” is information that is particular for this PERFORMER™. Using the “↓” key (down arrow key) or “↑” key (up arrow key), move to the field you wish to change. Enter information by using any of the keys. When you have completed an entry in a field, press the “enter”, “↓” key (down arrow key) or “↑” key (up arrow key) keys.

When you have made all changes, press the “menu” key.

Field Information:

Site Name Name of the location where the PERFORMER™ is located. For instance, if the PERFORMER™ is in store number 1364, enter “1364” into this field.

Unit Name Name for the rack. As an example, “Rack A”.

Refrigerant Type Enter the refrigerant type. This is for information purposes only.

Rack Type There are three selections for the rack type:

“Single header”, press “S” or use the “spc” key,

“Two Stage”, press “T” or use the “spc” key,

“Split Header”, press “P” or use the “spc” key.

Log Interval This can be set to any value between 5 seconds and once a day.

Unit ID This is used for the Encore network to allow communications between the Encore 2100 and PERFORMER™s. This must be a unique number for each PERFORMER™ starting with “1”.

Baud Rate Used to set the communication rate between the PERFORMER™ and the 2100 System or Modem. Press the “spc” key until the desired baud rate is shown. This is normally set at 9600.

Connect Type Used to determine what the PERFORMER™ is communicating with. If an Encore 2100 is connected, set the connect type to 2100. If a modem is connected to the PERFORMER™, set the connect type to Modem. If a direct connection (laptop plug-in) to the Racks through an Encore ProLink is desired, set the connect type to Direct.

NOTE: Once this has been set, check and make sure the battery jumper and the battery is firmly connected and then disconnect the power to the PERFORMER™ for about 5 seconds. This will reset the connection type to your new selection. If power is not disconnected for a few seconds, the new connect type will not function.

COMMON INPUTS / OUTPUTS

COMMON INPUTS/OUTPUTS	
<input checked="" type="checkbox"/> Main	<input type="checkbox"/> Targets
<input type="checkbox"/> Compressor	<input type="checkbox"/> Condenser
<input checked="" type="checkbox"/> System Setup	
Inputs	
Discharge Pressure	1/03
Drop-Leg Temperature	0/00
MLLS Status	0/00
Phase Fail	0/00
Indoor Air Temp	0/00
Outdoor Air Temp	0/00
Indoor Humidity	0/00
Outdoor Humidity	0/00
Outputs	
Alarm Output	0/00
Controller Bypass	0/00
Receiver Liquid Level	B/Pt
Liquid Level Input	0/00
Low Alarm Level	0%
Low Alarm Delay	0 min.
Display 0% at: . 0V and 100% at: 5.00V	
Press ↓ to edit or select for list	

To get here from the Main screen:

Press the "S" key (Setup), then press the "I" key (Inputs).

Menu selections:

- Main - show the group 1 status screen
- Targets - allows targets or alarm setpoints for the group to be set or changed
- Compressor - setup suction group 1 (group 2 or 3, if used)
- Condenser - setup or make changes to condenser control
- System_Setup - used to initially setup the PERFORMER™

Purpose:

Used to set the board and point number for miscellaneous inputs and outputs used by the PERFORMER™ including the Controller bypass. Also this is the location where the receiver liquid level alarm is set.

Function:

This screen is used to set the board and point locations of a number of miscellaneous inputs and outputs used by the PERFORMER™. Each of the fields is self explanatory. If the input or output is not used, it's board and point location should be set to "0".

In addition, this screen allows the PERFORMER™ to be used to monitor and alarm the receiver liquid level. The board and point of the liquid level sensor must be entered. The two remaining fields are:

Low Alarm Level If the receiver level reaches or remains below this setpoint for the Low Alarm Delay period, an alarm will occur indicating a low receiver level.

Low Alarm Delay This is the delay time in minutes after which the alarm will be recorded if the receiver level drops and remains below the Low Alarm Level.

(*MLLS stands for Master Liquid Line Solenoid)

DIALOUT SETUP

NOTE: This setup is **NOT** to be used if an Encore 2100 System is used in the facility and is connected to the PERFORMER™.

DIALOUT SETUP	
Main	S Setup
Modem Init String E0Q0V1S0=1S7=120&C1&D0X4&Q0&K0&W	
If alarm not acknowledged after 30 min. Call between 08:00AM and 11:00PM	
Numbers to call:	Baud Rate 9600
1: 1-800-555-5555	
2: 123-4567, , , , 2	
3:	
4:	
Call between 11:00PM and 08:00AM	
Numbers to call:	Baud Rate 9600
1: 1-800-234-5678	
2: 456-7890, , , , 3	
3:	
4:	
Retry every 10 min. for 999 tries.	
Press ↓ to edit or select for list	

To get here from the Main screen:
Press the "S" key (Setup), then a "S" key.

Menu selections:

Main - show the group 1 status screen
Setup - show the setup screen

Purpose:

To enter dialout settings and phone numbers (only if an Encore 2100 System is **NOT** being used for communication).

Function:

This screen allows the setup of up to 8 numbers to dial out at different times of the day and the modem initialization string, dialout delay, modem baud rates, number of redials and redial delays.

Field Information:

- Modem Init Sting* The Modem Initialization String. This is only needed if the PERFORMER™ is dialing out and not an Encore 2100 system. Contact Encore with any specific questions for the modem initialization string if needed.
- Dialout Delay* After an alarm condition has occurred, the PERFORMER™ will wait this length of time to dialout.
- Call between...* During different times of the day, different phone numbers can be dialed after the Dialout Delay has been met.
- Baud Rate* The speed at which the modem can communicate with other modems.
- Phone Numbers* Up to 4 phone numbers can be set to be dialed during a specific time period of the day. The PERFORMER™ dials the number and when connected, will send the alarm in ASCII format to the system that is receiving the alarm.
- Retries* The PERFORMER™ will retry to dial out if not connected up to 999 times.
- Retries Delay* The PERFORMER™ can delay between retry attempts.

PASSWORDS

PASSWORD SETUP			
Main		Setup	
	User Name	Password	Level
1	RALPH	XYZ	THREE
2			NONE
3			NONE
4			NONE
5			NONE
6			NONE
7			NONE
8			NONE
9			NONE
10			NONE

Press ↓ to edit or select for list

To get here from the Main screen:

Press the "S" key (Setup), then a "P" key (you must be logged on to get this selection).

Menu selections:

- Main - show the group 1 status screen
- Setup - show the setup screen

Purpose:

To enter up to ten user ID's and passwords.

Function:

You must be logged on to get to this function. You cannot view this screen unless you are logged on. For each user, enter a unique ID and password consisting of up to 10 characters each. Then enter a level (ONE through THREE). Levels are not currently used, but will be used to block access to certain features of future PERFORMER™s.

NETWORK STATUS

STATUS - NETWORK								
M ain	M ore	S ystem-Setup	R e-Configure					
Memb-Values								
INPUT BOARDS								
Board #	1	2	3	4	5	6	7	8
Online ?	Yes	Yes	No	No	No	No	No	No
Offlines	001	001	000	000	000	000	000	000
Board #	9	10						
Online ?	No	No						
Offlines	000	000						
OUTPUT BOARDS								
Board #	1	2	3	4	5	6	7	8
Online ?	Yes	Yes	No	No	No	No	No	No
Offlines	000	000	000	000	000	000	000	000
Board #	9	10	11	12	13	14	15	16
Online ?	No	No	No	No	No	No	No	No
Offlines	000	000	000	000	000	000	000	000

To get here from the Main screen:

Press the "S" key (Setup), then press the "N" key (Network).

Menu selections:

- Main - show the group 1 status screen
- More - shows status of other boards attached. Looks like this screen with a different board numbers.
- System_Setup - used to initially setup the PERFORMER™
- Re-Configure - for Encore use only.
- Memb_Values - for Encore use only.

Purpose:

To determine the status of the network wiring and input/output board operation. This screen will also indicate if a board has been assigned for control in the software setup and if the board is online.

Function:

Each board that has been defined after setup should show up as on-line. If not, check the wiring. If the wiring is found to be correct, make sure that each input and output board has a unique network address set into its switches. The input boards should start at address "1" and the output boards should also start at address "1". See page 77 for necessary board address numbers.

Field Information:

If the "*board #*" number is backlit, then that board is being called for in the software because a input or output has been assigned to be monitored or controlled from that board. For example, if you have the suction transducer assigned to an input board at board 1 / point 1, then the number one following the "*board #*" for the INPUT BOARDS will be backlit.

If the number of offlines is high and continues to increase, you may have a bad board or wiring problems.

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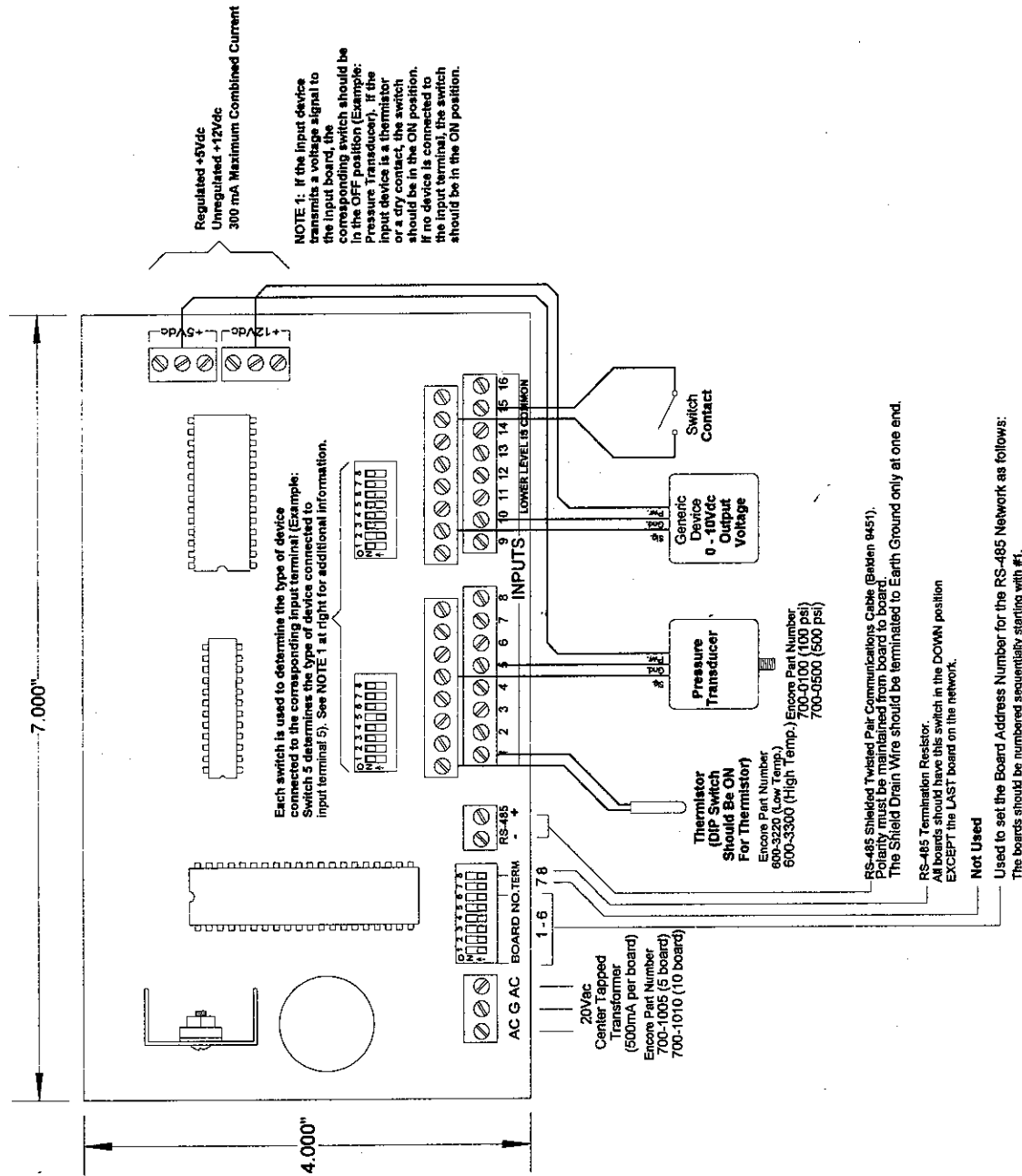
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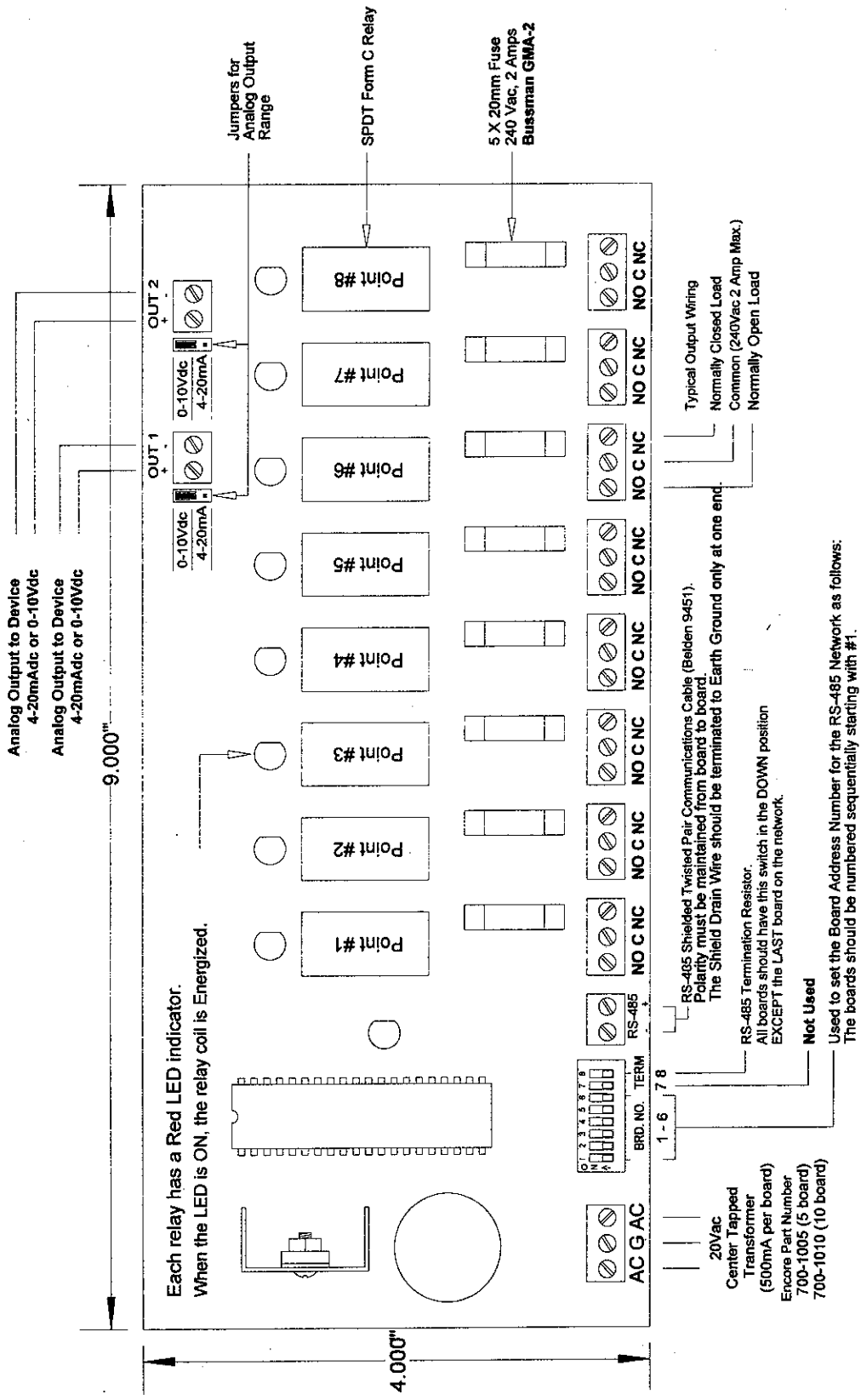
Encore I/O Board Address Table using SW1

I/O Board Address Number	Position 1	Position 2	Position 3	Position 4	Position 5	Position 6
1	Up	Down	Down	Down	Down	Down
2	Down	Up	Down	Down	Down	Down
3	Up	Up	Down	Down	Down	Down
4	Down	Down	Up	Down	Down	Down
5	Up	Down	Up	Down	Down	Down
6	Down	Up	Up	Down	Down	Down
7	Up	Up	Up	Down	Down	Down
8	Down	Down	Down	Up	Down	Down
9	Up	Down	Down	Up	Down	Down
10	Down	Up	Down	Up	Down	Down
11	Up	Up	Down	Up	Down	Down
12	Down	Down	Up	Up	Down	Down
13	Up	Down	Up	Up	Down	Down
14	Down	Up	Up	Up	Down	Down
15	Up	Up	Up	Up	Down	Down
16	Down	Down	Down	Down	Up	Down
17	Up	Down	Down	Down	Up	Down
18	Down	Up	Down	Down	Up	Down
19	Up	Up	Down	Down	Up	Down
20	Down	Down	Up	Down	Up	Down
21	Up	Down	Up	Down	Up	Down
22	Down	Up	Up	Down	Up	Down
23	Up	Up	Up	Down	Up	Down
24	Down	Down	Down	Up	Up	Down
25	Up	Down	Down	Up	Up	Down
26	Down	Up	Down	Up	Up	Down
27	Up	Up	Down	Up	Up	Down
28	Down	Down	Up	Up	Up	Down
29	Up	Down	Up	Up	Up	Down
30	Down	Up	Up	Up	Up	Down
31	Up	Up	Up	Up	Up	Down
32	Down	Down	Down	Down	Down	Up

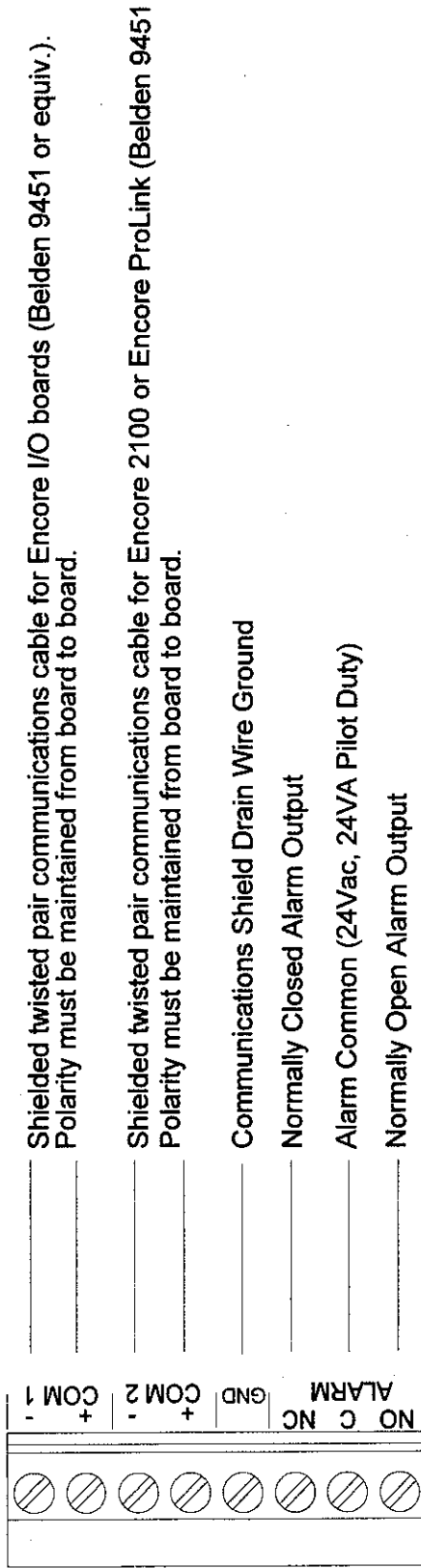
(PERFORMER™ is a trademark of Johnson Controls, Inc. - Encore Products.)



Encore Input Board (PN 800-7600) Field Wiring

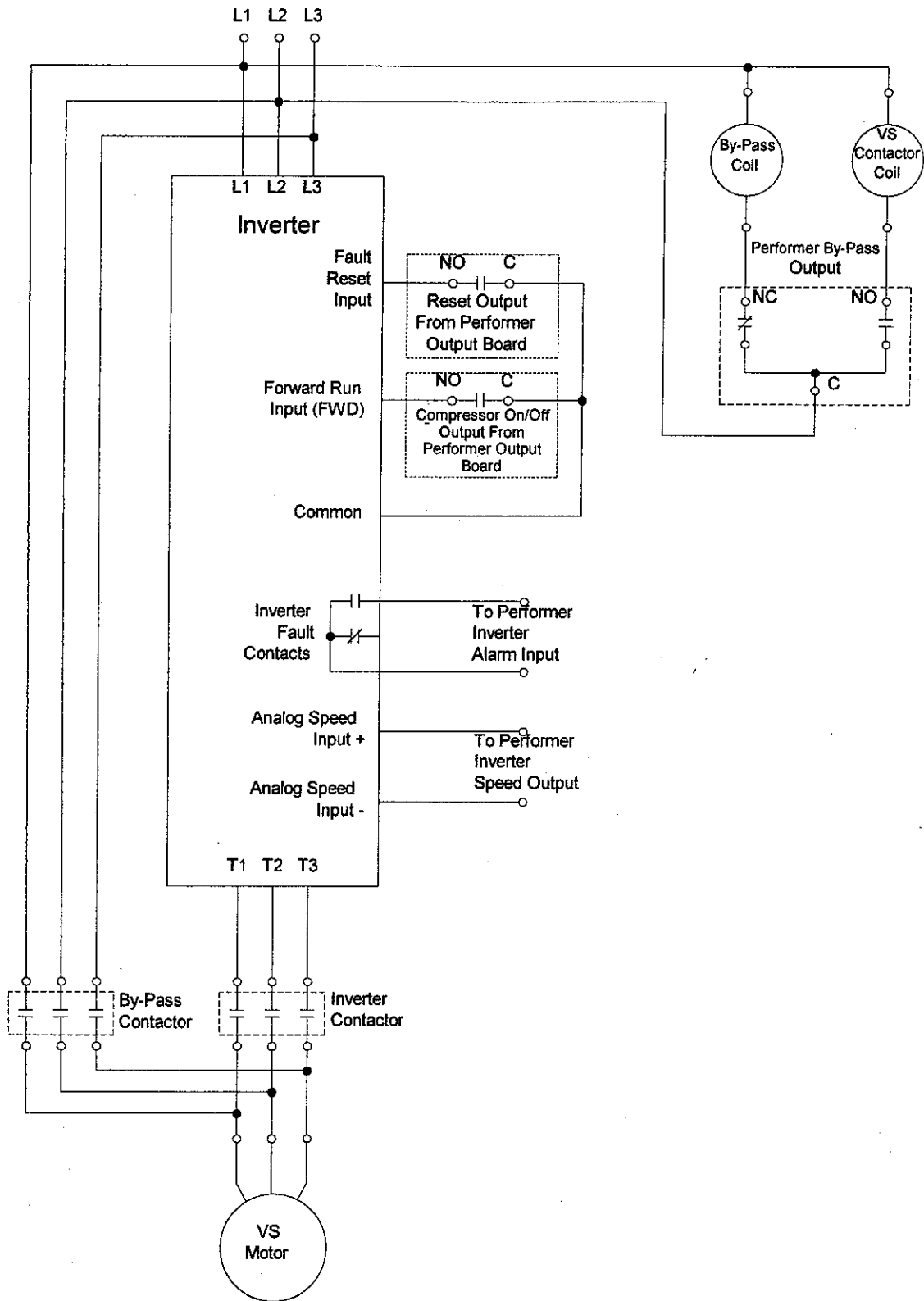


Encore Output Board (PN 800-7500 or 800-7520) Field

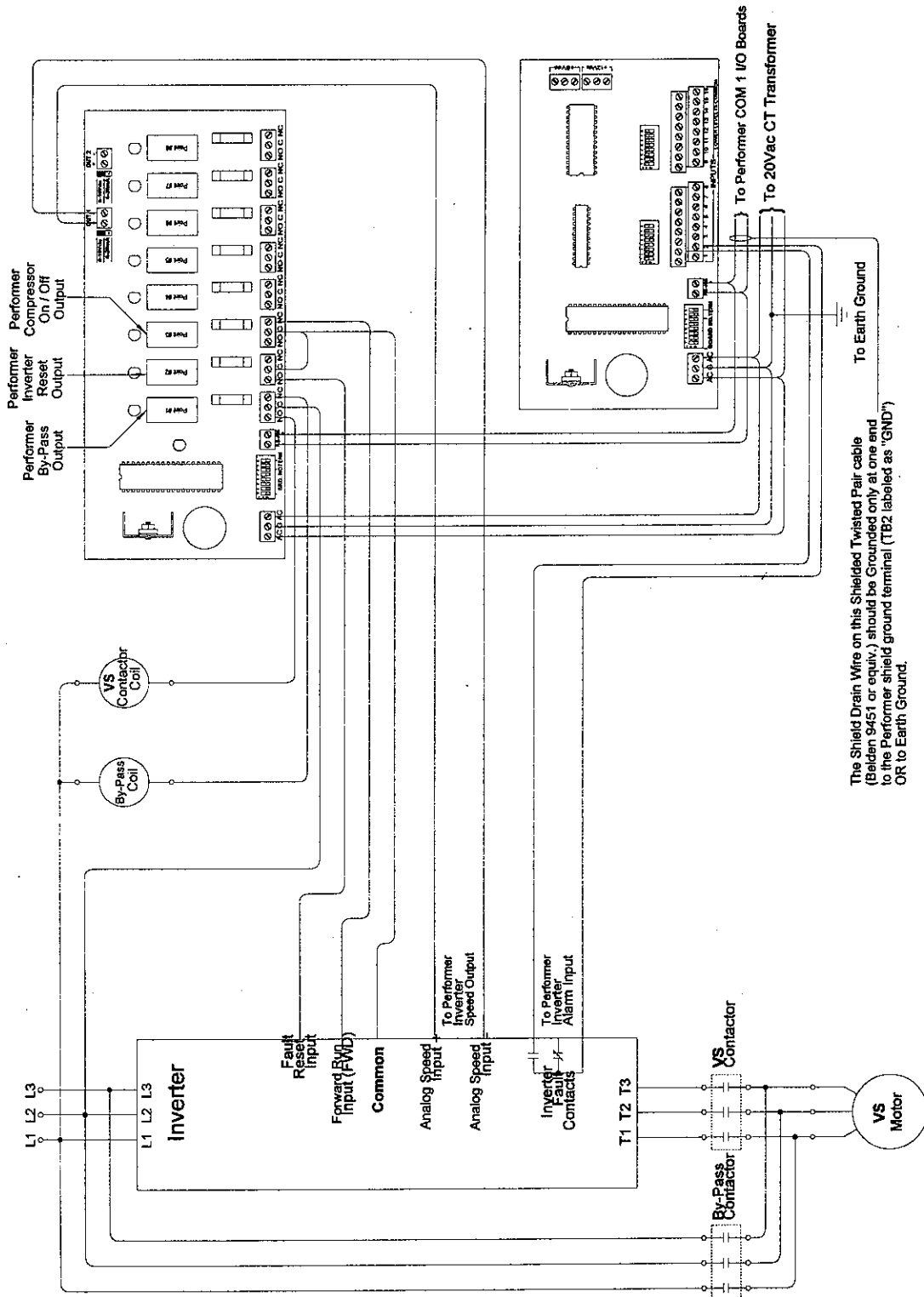


TB2

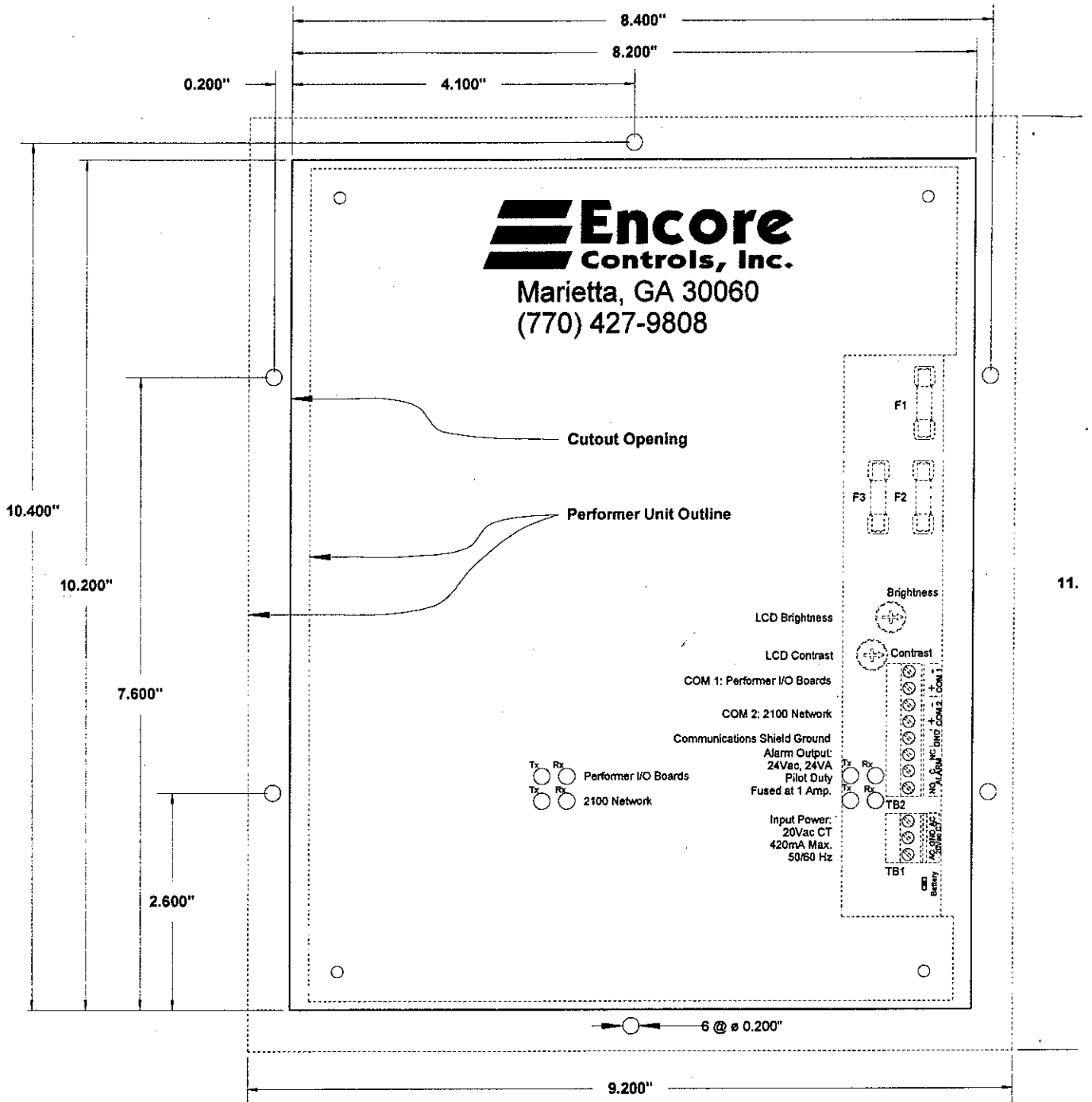
Performer Communications and Alarm Output Wiring Diagram



Typical Wiring of an Inverter to the Performer



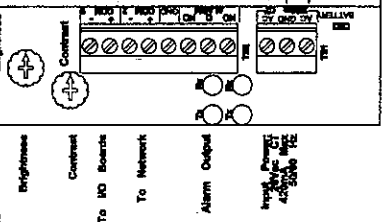
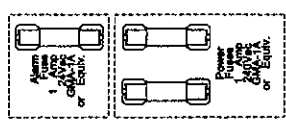
Typical Wiring of an Inverter to the Performer Rack Controller I/



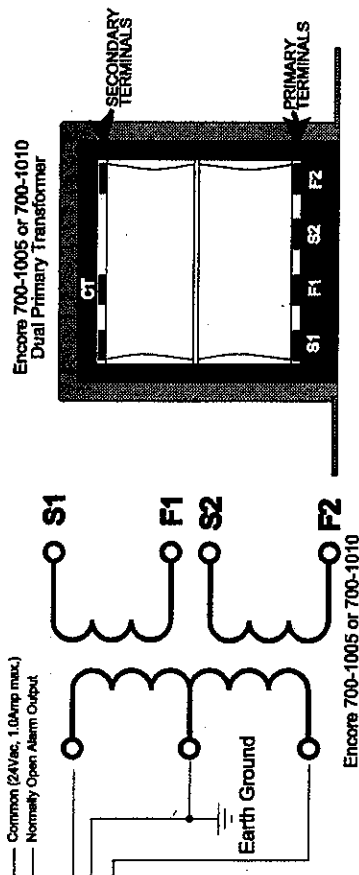
Mounting Hole Cutout Dimensions For The Performer

PERFORMER POWER WIRING DIAGRAM

Encore
Controls, Inc.
 Marietta, GA 30060
 (770) 427-9808

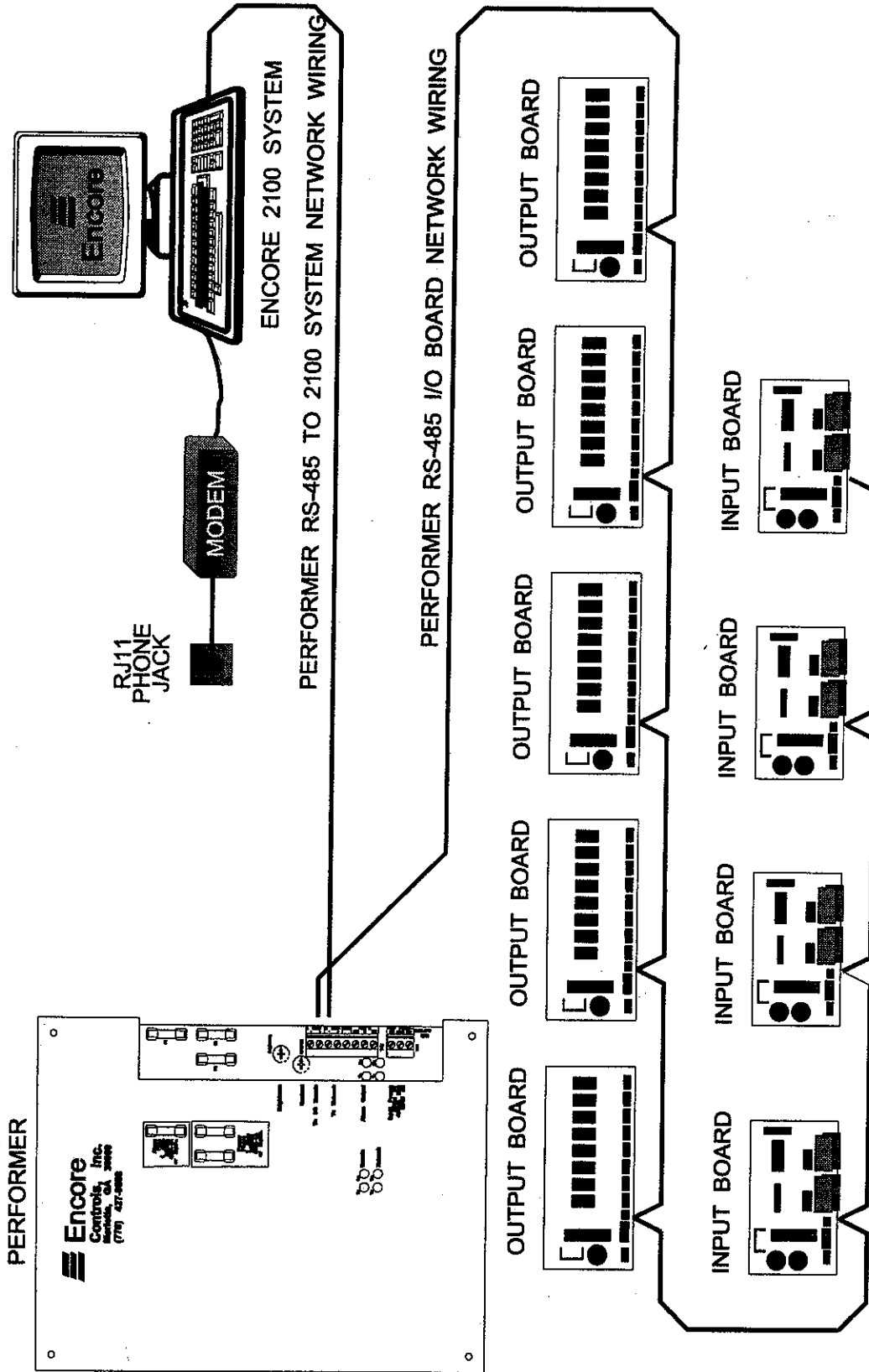


- Twisted pair communications wire for Encore IQ boards (Reiden 9451). Polarity must be maintained from board to board.
- Twisted pair communications wire for Encore 2100 or Encore ProLink (Reiden 8451). Polarity must be maintained from board to board.
- Communications Shield Ground
- Normally Closed Alarm Output
- Common (24VAC, 1.0Amp max.)
- Normally Open Alarm Output.



Encore 700-1005 or 700-1010 Dual Primary Transformer

FOR 115VAC INPUT - CONNECT F1 TO F2, S1 TO S2. APPLY 115VAC TO F1 AND S1.
 FOR 208VAC INPUT - CONNECT S2 TO F1, APPLY 208VAC TO F2 AND S1.



PERFORMER NETWORK WIRING