



# Lead Lag Control Panel

## PRODUCT DATA & INSTALLATION



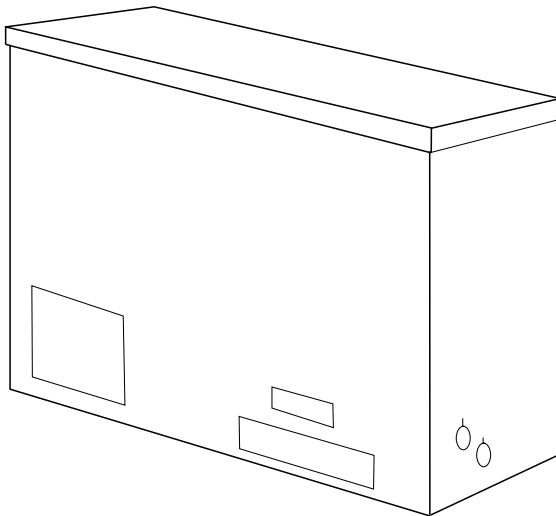
Bulletin B40-BLC-PDI-4

1068827

Latest product updates and further information at [www.ballyrefboxes.com](http://www.ballyrefboxes.com)

## Model BLC1 / BLC2

**Electrical Power:** 115/1/60,  
208-230/1/60,  
200-220/1/50



### NOMENCLATURE

BLC 1 - I S2 A

**Model**

Bally Lead Lag Control Panel

**Model Code**

1 = Standard  
2 = With Alarm/Auto Back-Up

**Application**

I = Indoor

**Voltage**

S1 = 115/1/60  
S2 = 208-230/1/60  
S6 = 200-220/1/50

**Series / Generation**

A = 1st Generation

- For use on TWO independent refrigeration systems using pumpdown control mode. (Thermostat wired into liquid line solenoid valve).
- Panel can be mounted at condensing unit on indoor installations or can be mounted remote inside on a wall when used with outdoor condensing units.
- Designed to alternate each system automatically at a preset 24 hour time period. (can be readjusted from a 6 to 300 hour time period).

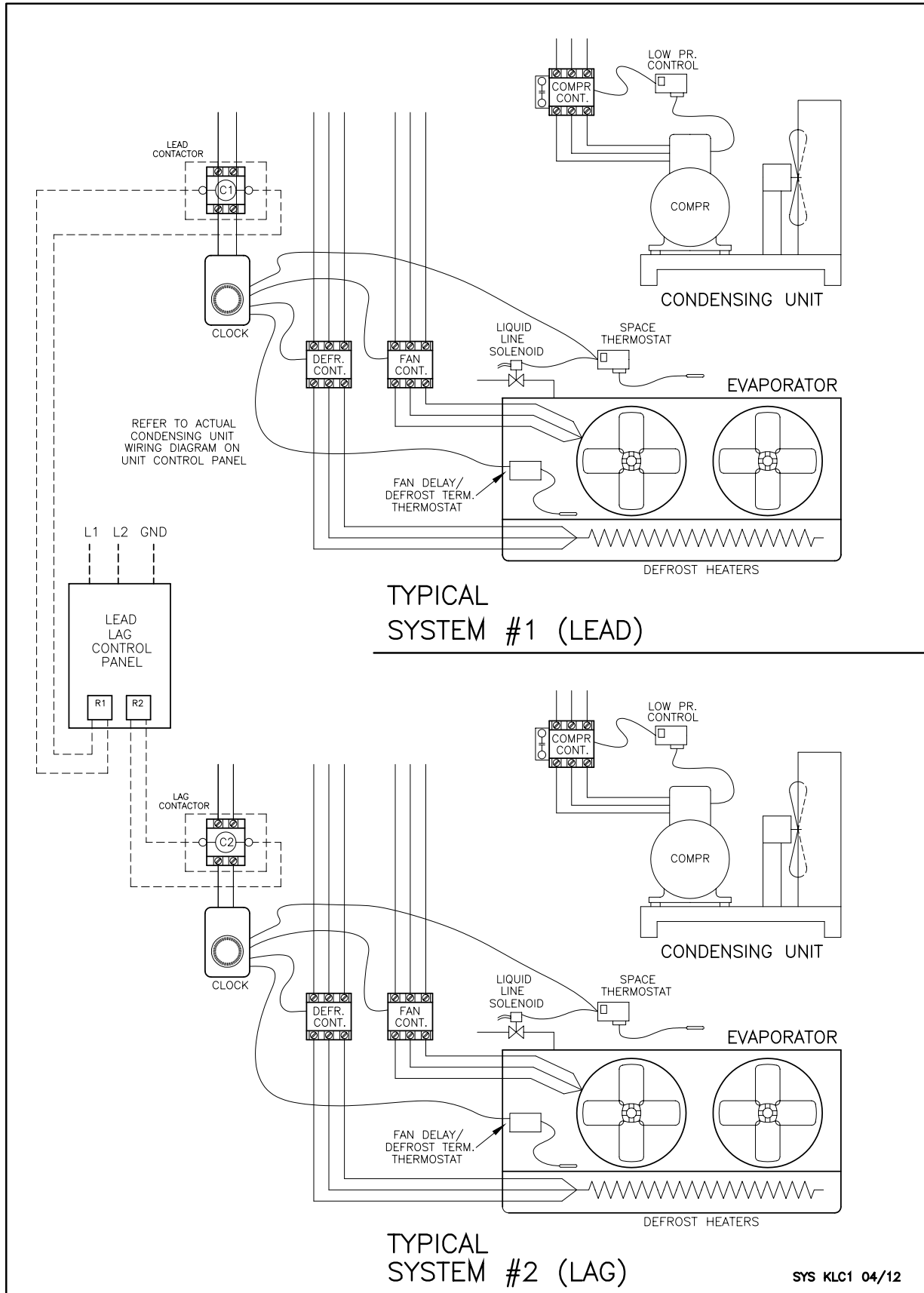
Three position toggle switch provides:

1. Condensing Unit #1 runs only.
2. Lead Lag mode. (alternates unit #1 and unit #2 automatically).
3. Condensing unit #2 runs only.

- BLC1 model offers low cost simple operation by automatically (pre-set time) or manually alternating each unit.
- BLC2 model offers the same as BLC1 and includes supplemental refrigeration backup during abnormal load situations or in the event one refrigeration system fails. (Includes alarm dry contacts)
- Panel is suitable for use with Air, Electric and Hot Gas defrost systems.
- Custom designed panels available to suit any specific customer requirement (contact factory)



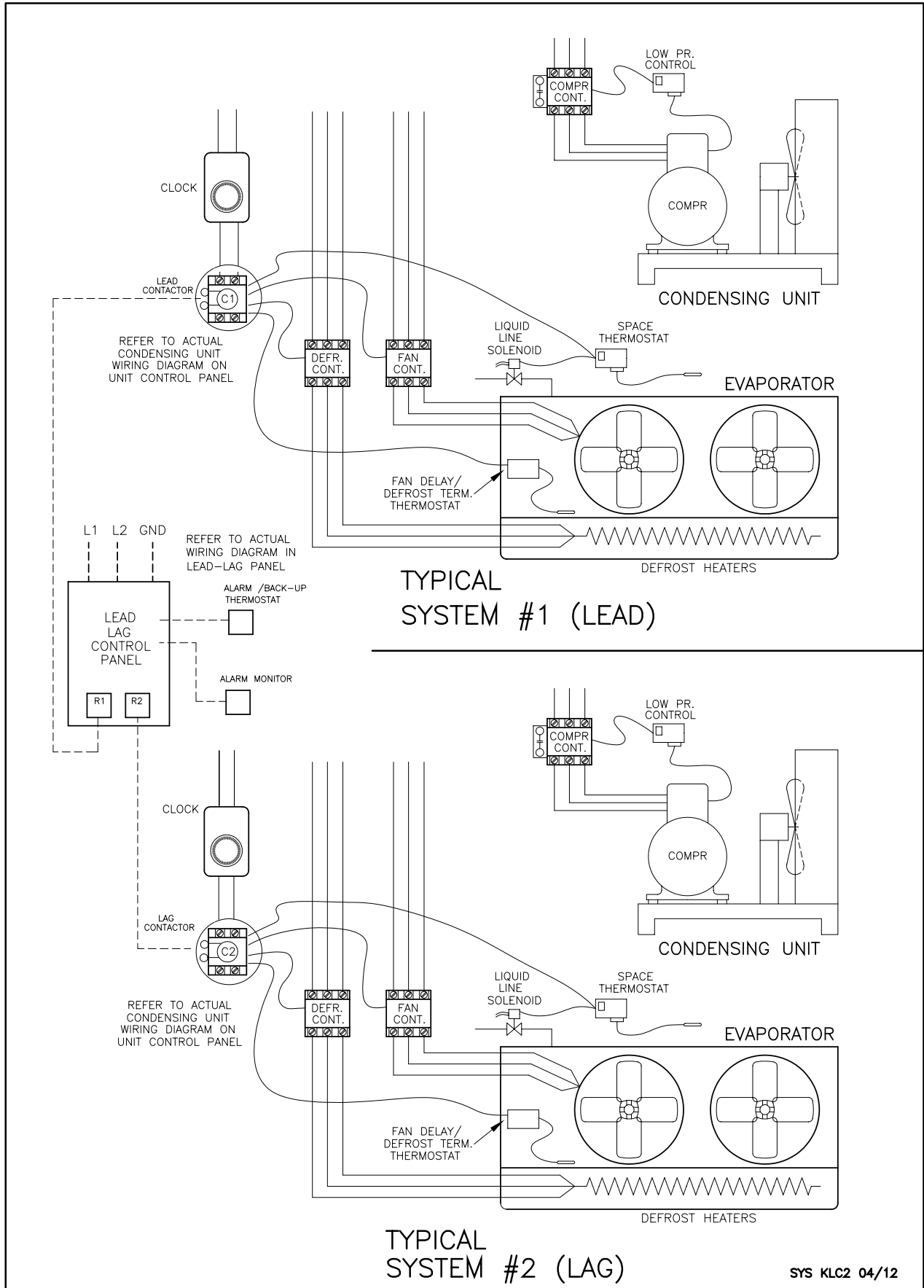
## SYSTEM LEAD-LAG WIRING - BLC1



SYS KLC1 04/12

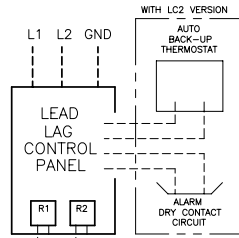


## SYSTEM LEAD-LAG WIRING - BLC2



## LEAD/LAG 2 PANEL AND EVAP. WIRING

### REMOTE LEAD/LAG PANEL



TO LEAD C1 CONTACTOR COIL (---) AT COND UNIT#1  
TO LAG C2 CONTACTOR COIL AT COND UNIT#2

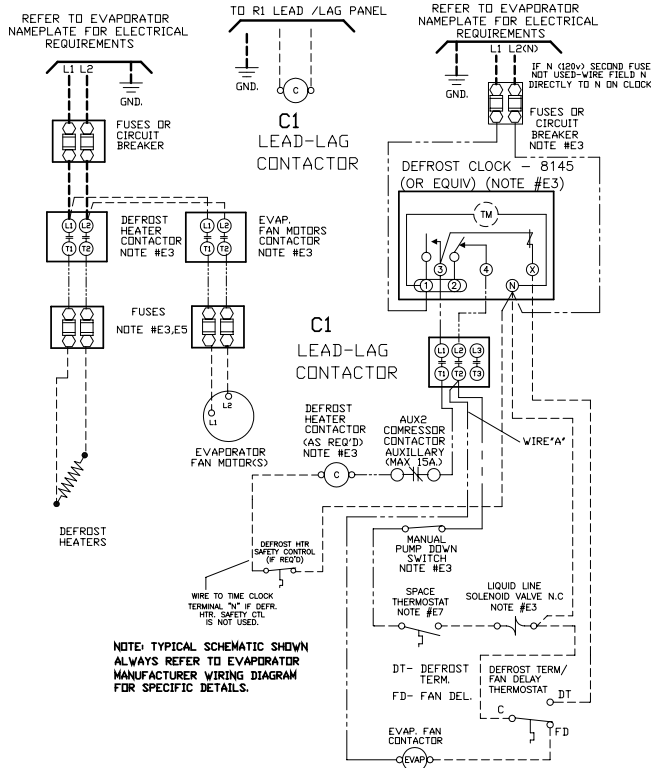
REFER TO ACTUAL LEAD-LAG PANEL DIAGRAM AND CONDENSING UNIT WIRING DIAGRAM ON CONTROL PANELS.

ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.

CONDENSING UNITS ARE WIRED FOR PUMPDOWN MODE (CYCLE OFF ON LP CONTROL DURING PUMPDOWN).

### LEAD UNIT#1 EVAPORATOR

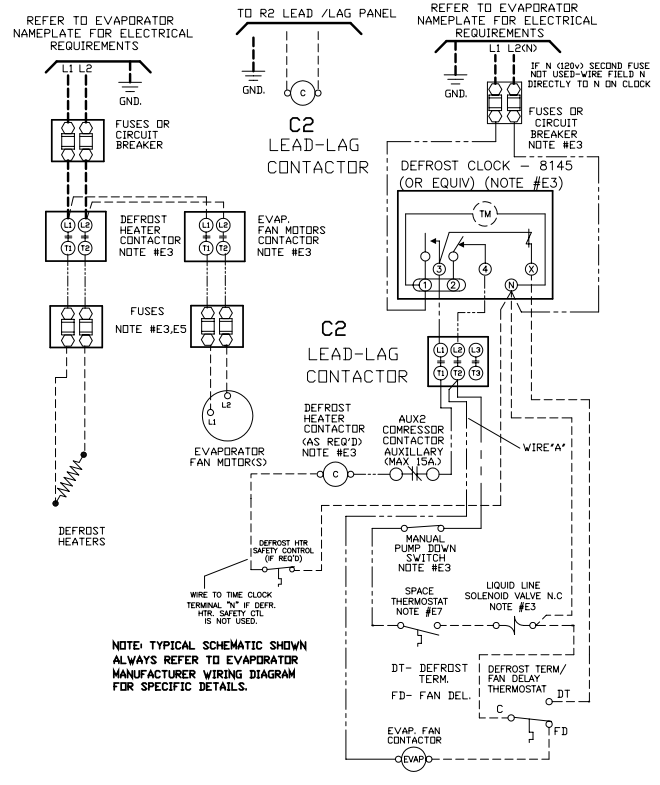
#### ELECTRIC DEFROST



NOTE: TYPICAL SCHEMATIC SHOWN ALWAYS REFER TO EVAPORATOR MANUFACTURER WIRING DIAGRAM FOR SPECIFIC DETAILS.

### LAG UNIT#2 EVAPORATOR

#### ELECTRIC DEFROST



NOTE: TYPICAL SCHEMATIC SHOWN ALWAYS REFER TO EVAPORATOR MANUFACTURER WIRING DIAGRAM FOR SPECIFIC DETAILS.

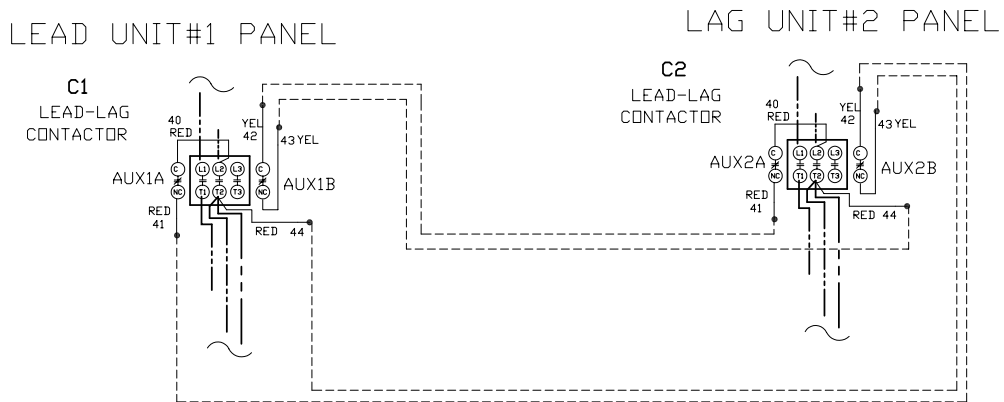
NOTE: FOR CONSTANT EVAP FAN OPERATION DURING LAG MODE RE-LOCATE WIRE "A" FROM T2 TO L2 ON LEAD-LAG CONTACTOR

## OPTIONAL FIELD WIRING FOR PANEL POWER LOSS - BLC2

### OPTIONAL FIELD WIRING FOR LEAD/LAG 2 PANEL POWER LOSS

IN THE EVENT THE MAIN LEAD-LAG PANEL LOSES POWER A MASTER ALARM WILL BE ACTIVATED. TO ENSURE POWER IS STILL AVAILABLE TO THE LIQUID LINE SOLENOID CIRCUIT , WIRE THE FOLLOWING BYPASS CIRCUIT ALLOWING CIRCUIT POWER TO THE LIQUID SOLENOID AND FANS (NOTE MAX TOTAL 12A)

#### ADDITIONAL WIRING TO C1/C2 CONTACTORS



NOTE: SEE COMPLETE DIAGRAM ON P.1



# SERVICE PARTS LIST (50/60Hz)

## BLC1 & BLC2

| DESCRIPTION                          | 120V    | 230V    |
|--------------------------------------|---------|---------|
| Timeclock power Contactors (C1, C2)  | 1043345 | 1049602 |
| Lead-Lag Timer (Dual volt/Freq) - T1 | 1065232 | 1065232 |
| 11 Pin Socket Base                   | 1065233 | 1065233 |
| Control Relay (R3)                   | 1047767 | 104534  |
| 8 pin Socket Base                    | 1062258 | 1062258 |
| Lead / Lag Relay (R1, R2)            | 1043345 | 1049602 |
| 3 Position Toggle Switch             | 1067407 | 1067407 |

## BLC2 ONLY

| DESCRIPTION                          | 120V    | 230V    |
|--------------------------------------|---------|---------|
| Lead-Lag Timer (Dual volt/Freq) - T2 | 1065232 | 1065232 |
| Control Relay (R4, R5)               | 1047767 | 104534  |
| Alarm Temperature Control            | 1085500 | 1085500 |
| Lamp - Red                           | 1090031 | 1090273 |
| Lamp - Green                         | 1090032 | 1090274 |
| Lamp - Amber                         | 1090033 | 1090275 |



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