

Thomas&Betts

**EMERGENCY BALLAST
WIRING GUIDE**

rev. 103103



HOW TO USE THE EMERGENCY BALLAST WIRING GUIDE

This Document has been customized to contain a wide library of individual diagrams for various installation applications. If a diagram cannot be found within this selection, consult Customer Service.

The diagrams are categorized primarily according to the number of lamps in the fixture, then followed by the ballast type. Sometimes a specific lamp type is listed (i.e: biax, circline, etc.). If a lamp type is not listed, the diagram shows a typical straight tube lamp configuration. In some cases, a specific ballast manufacturer is listed for AC ballasts that have unique wiring arrangements.

Diagrams for specific situations can be located within this PDF file by using the following methods:

1) USING THE NAVIGATION WINDOW

Use the Navigation window and select the Emergency Ballast for which the diagram is needed, then scroll through the list of applications to find the diagram(s) that meet the necessary criteria by clicking on the “plus” sign next to the Unit Model. (Many of the diagrams are bookmarked with identical descriptions. Examine the diagram for details as to whether or not it applies to your situation.)

NOTE: The order in which the pages are bookmarked is not indicative of the actual page order, therefore, continuing to the next page after a “Two Lamp Ballast” diagram may not necessarily take you to another “Two Lamp Ballast” diagram. To aid in locating specific diagrams, each has been bookmarked and categorized in the navigation window.

2) USING THE FIND COMMAND

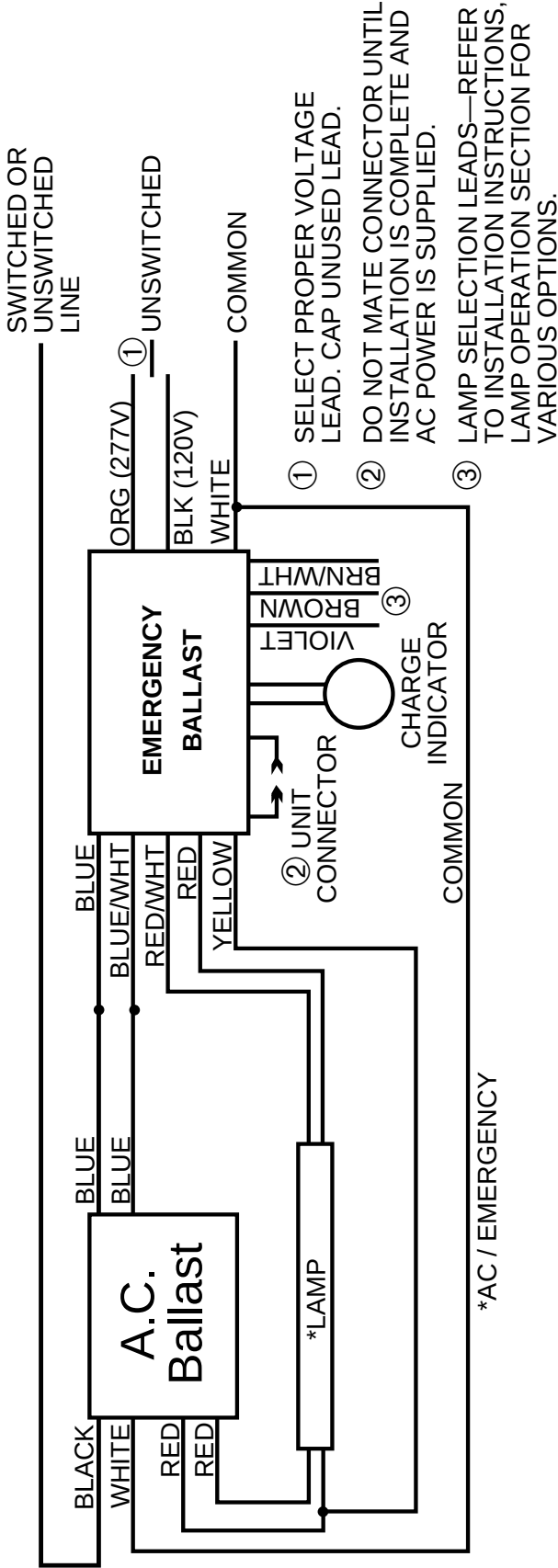
Some diagrams feature a Model List for reference. If you know the actual model number of the AC ballast that the emergency unit is being wired to, you may use the “FIND” tool in the toolbar (Denoted by the binocular icon) to search the diagrams for that particular model. FIND commands may or may not be successful, since not all ballasts models are listed within this file.

When using the FIND command, it may be helpful to search for only the first few letters or numbers of the model number (i.e. “RCN” or “ECO”) due to the nature of how the reference lists are compiled. Include any hyphens or slashes that may appear in the model number when using the FIND command.

This Guide is by no means an exhaustive record of all AC Ballast/Emergency Unit combinations. If a search using the FIND command or Navigation window is not successful, contact Customer Service for further assistance.

You may request an updated Wiring Diagram Guide at anytime. Please consult Customer Service to find out if a later version with any additions and/or corrections is available.

ONE LAMP RAPID START BALLAST



ADVANCE

HM/VM-1P30-TP
HM/VHM-1P20-TP
LQ/VLQ-106F-TP
R/V-1P817-TP
R/V-1P825-TP
R/V-1P32-TP
R/V-1P840-TP
R/V-140-TP
R/V-1U40P-TP
RC/VC-160-TP
RC/VC-1P40-TP
RCN/VCN-1S32
RCN/VCN-1S40
REL/VEL-1S40-RH-TP
REZ-132
RIC/VIC-132-TP
RIC/VIC-140-TP
RK/VK-132-TP
RK/VK-134-TP
RS/VS-110-TP
RS/VS-160-TP
RZT/VZT-132*

EBT

ECG-120/277-1/40 SR
SSB1-120/277-1/40 LH

GE

G1-RL-T8-1LL-120/277
G1-RN-T8-10C-120/277
G1-RN-T8-1LL-120/277
G1-RN-T12-1LL-120/277

KINGTEC

132K120/277

LUTRON

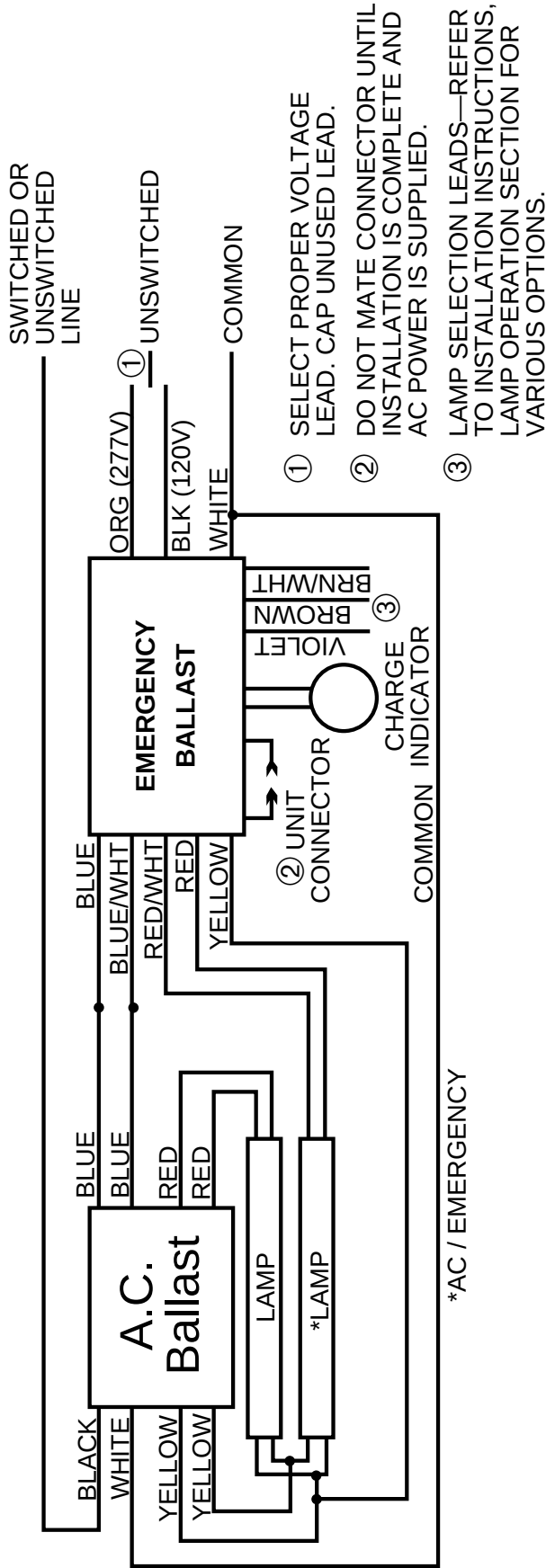
ECO-T832-120/277-1*
FDB-4827-120/277-1*

MOTOROLA

M1-RL-T8-1LL-A-120/277
M1-RL-T8-050-D-120
M1-RN-T12-1LL-B-120/277
M1-RN-T8-10C-B-120/277
M1-RN-T8-1LL-D-120/277
M1-RN-T8-HO-A-120/277
M1-RV-T8-001-B-120

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY EM PACK

TWO LAMP RAPID START BALLAST



ADVANCE

HM/VM-2SP20-TP
R/V-2P817-TP
R/V-2P825-TP
R/V-2P832-TP
R/V-2P840-TP
R/V-2S40-TP
R/V-2SP30-TP
R/V-2S110-TP
RC/VC-2SP40-TP
RC/VC-2S85-TP/FO/RO
RC/VC-2S110-FO/RO
RC-2SP830-TP
RCN/VCN-2S32
RCN/VCN-2S40
REL/VEL-2S40-RH-TP
REL/VEL-2S110-RH-TP
REL/VEL-2TTS39-RH-TP
REL/VEL-2TTS40-RH-TP
REL/VEL-2TTS50-RH-TP
RL-2SP20-TP
RM-2S35-TP
RM/VM-2SP30-TP
RIC/VIC-2S32
RIC/VIC-2S40
REZ/VEZ-2S32

EBT

ECG-120/277-2/32 SR
ECG-120/277-2/40 SR
SSB1-120/277-2/32 LH
SSB1-120/277-2/40 LH /-(75%)/-(MPX)
SSB7-120/277-2/32 LH

GE

G2-RH-T8-1LL-120/277
G2-RL-T8-1LL-120/277
G2-RN-T8-10C-120/277
G2-RN-T8-1LL-120/277
G2-RN-T12-1LL-120/277

GOLDSTAR

GB 2x32/FL/R/VHP

KINGTEC

232K120/277
232K120-75%
232K2120
240K120/277

LUTRON

ECO-T832-120/277-2*
FDB-4827-120/277-2*

MAGNETEK

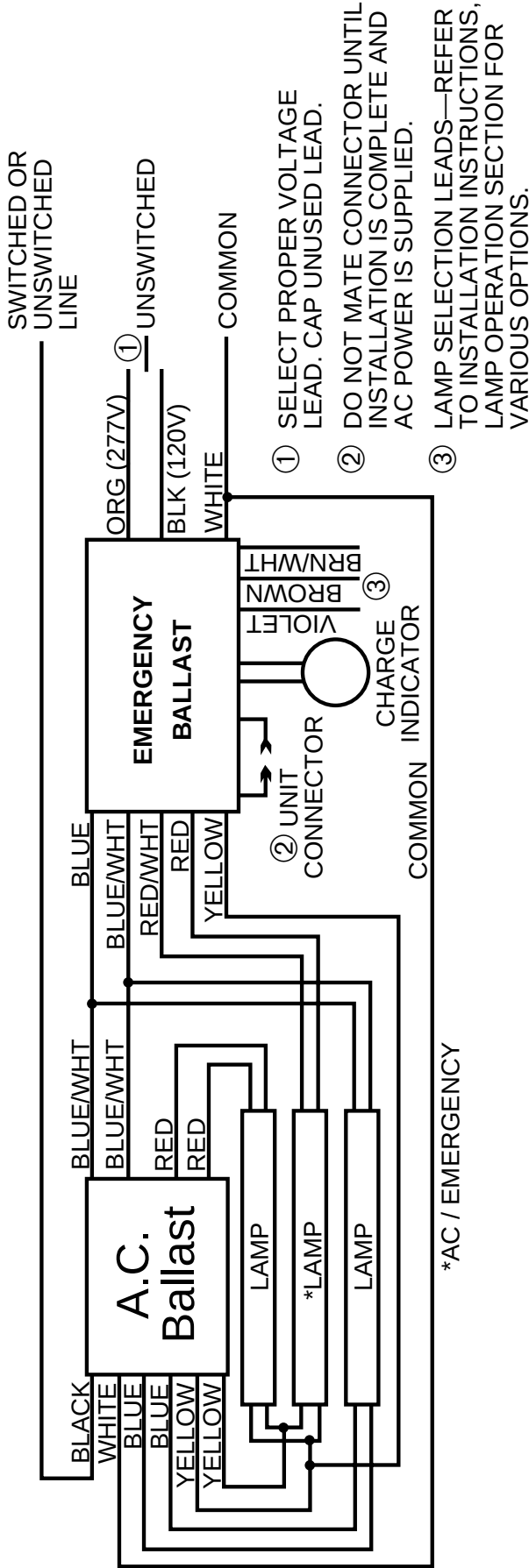
B232 R277 HP

MOTOROLA

M2-RH-T8-1LL-B-120/277
M2-RL-T8-1LL-A-120/277
M2-RN-T12-1LL-B-120/277
M2-RN-T8-10C-B-120/277
M2-RN-T8-1LL-D-120/277

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
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EM PACK

THREE LAMP RAPID START BALLAST



ADVANCE

R/V-3S34-TP
RCN/VCN-3S32
RCN/VCN-3S40
REL/VEL-3S40-RH-TP
RIC/VIC-3S32-TP
RIC/VIC-3S40-TP
RK/VK-3S34-TP
RL-3SP20-TP
RZT/VZT-3S32*
REZ/VEZ-3S32*

EBT

SSB1-120/277-3/32 LH
SSB1-120/277-3/40 LH

GE

G3-RL-T8-1LL-120/277
G3-RN-T8-10C-120/277
G3-RN-T8-1LL-120/277
G3-RN-T12-1LL-120/277

LUTRON

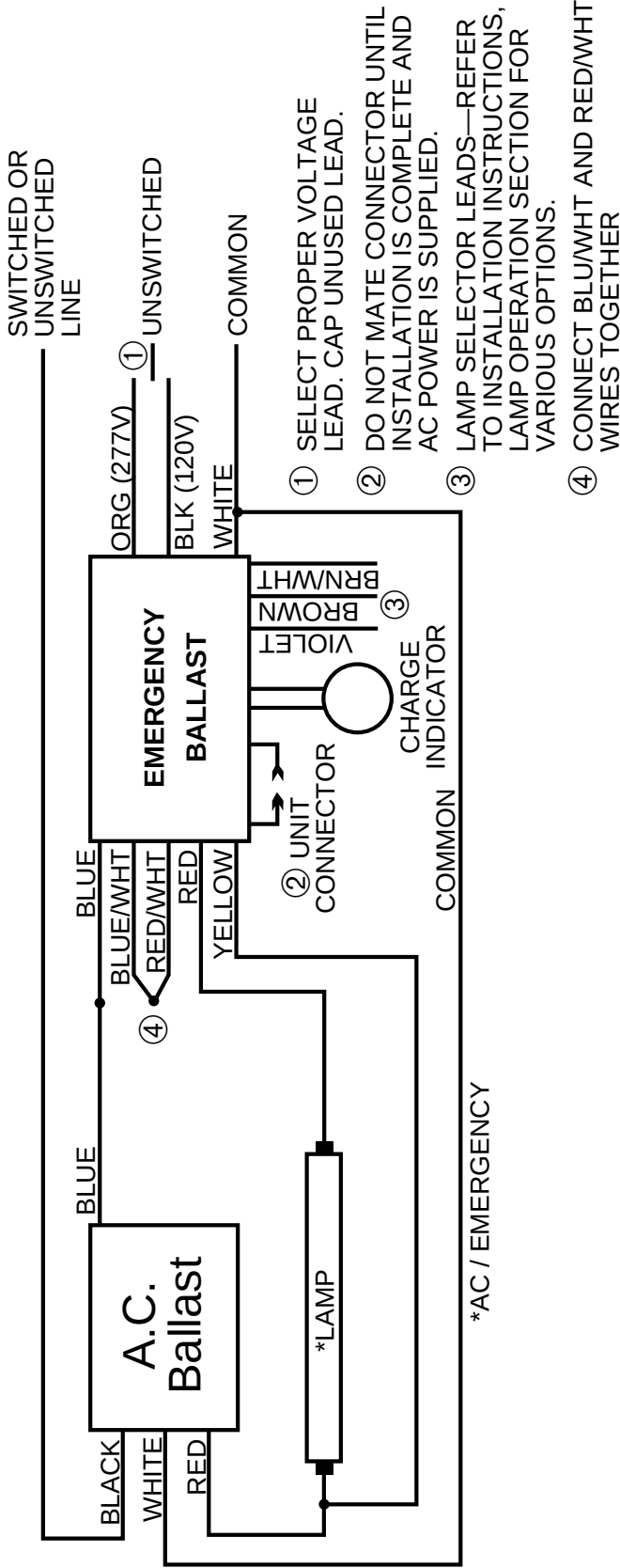
ECO-T832-120/277-3*
FDB-4827-120/277-3*

MOTOROLA

M3-RL-T8-1LL-A-120/277
M3-RN-T12-1LL-B-120/277
M3-RN-T8-1LL-A-120/277

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY
EM PACK

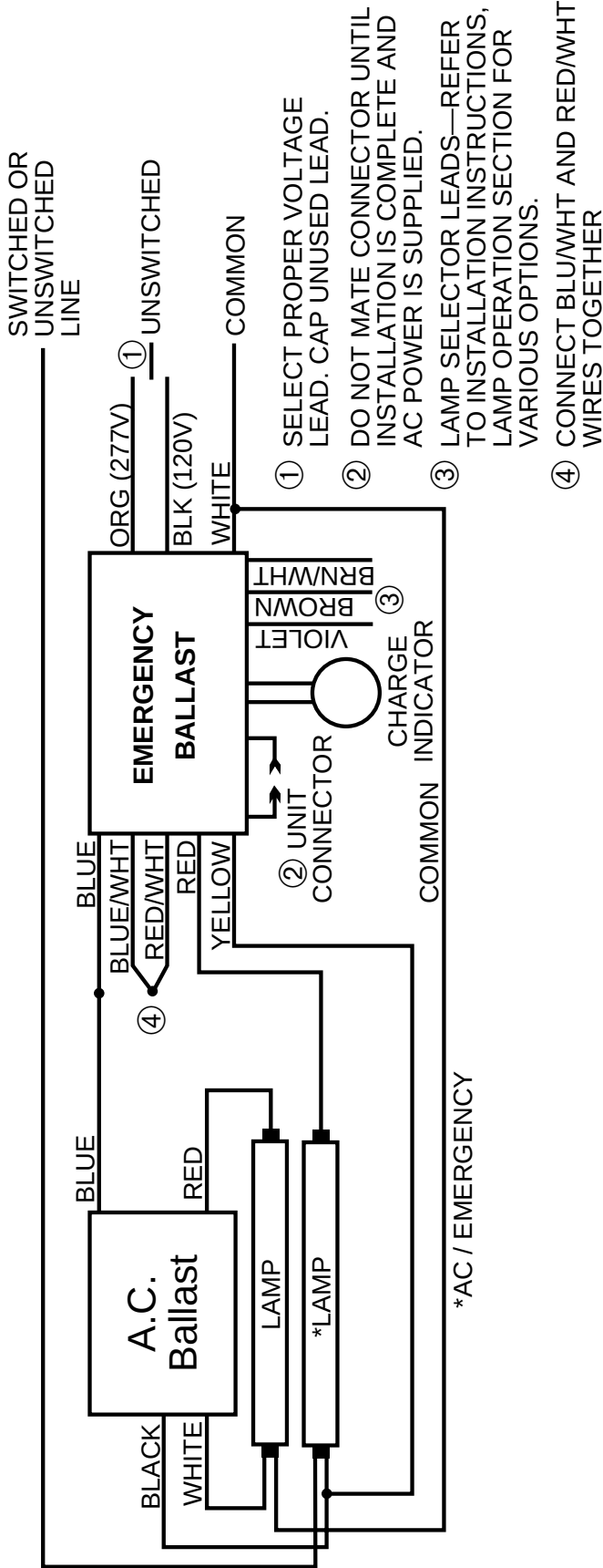
ONE LAMP INSTANT START BALLAST



ADVANCE
RCN/VCN-1P32 REL/VEL-1P32-RH-TP REL/VEL-1P32-SC
EBT
ECG-120/277-1/32 PI SSB2-120/277-1/32 IS LH
GE
G1-IN-T8-120/277
GOLDSTAR
GB 1x32/FL/I/120-277 GB 1x32/FL/I/120L-277L
HOWARD
ECL1/32IS-120/277 EL1/32IS-120/277 E1/32IS-120/277 EC1/32IS-120/277
MAGNETEK
B132I120/277HP B132I120/277RH
MOTOROLA
M1-IN-T8-1LL-D-120/277 M1-IN-T8-D-120/277 M1-IN-T8-GP-D-120/277

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY
EM PACK

TWO LAMP INSTANT START BALLAST

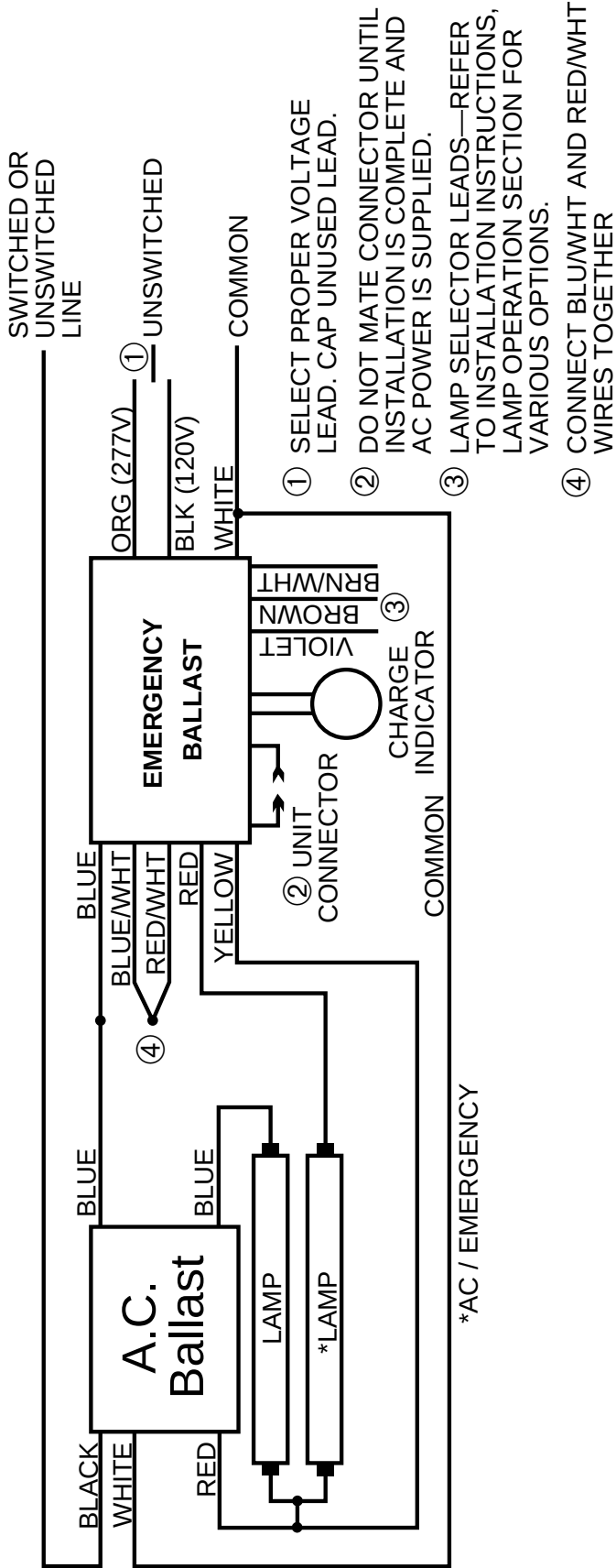


ADVANCE

R-2E75-S-TP

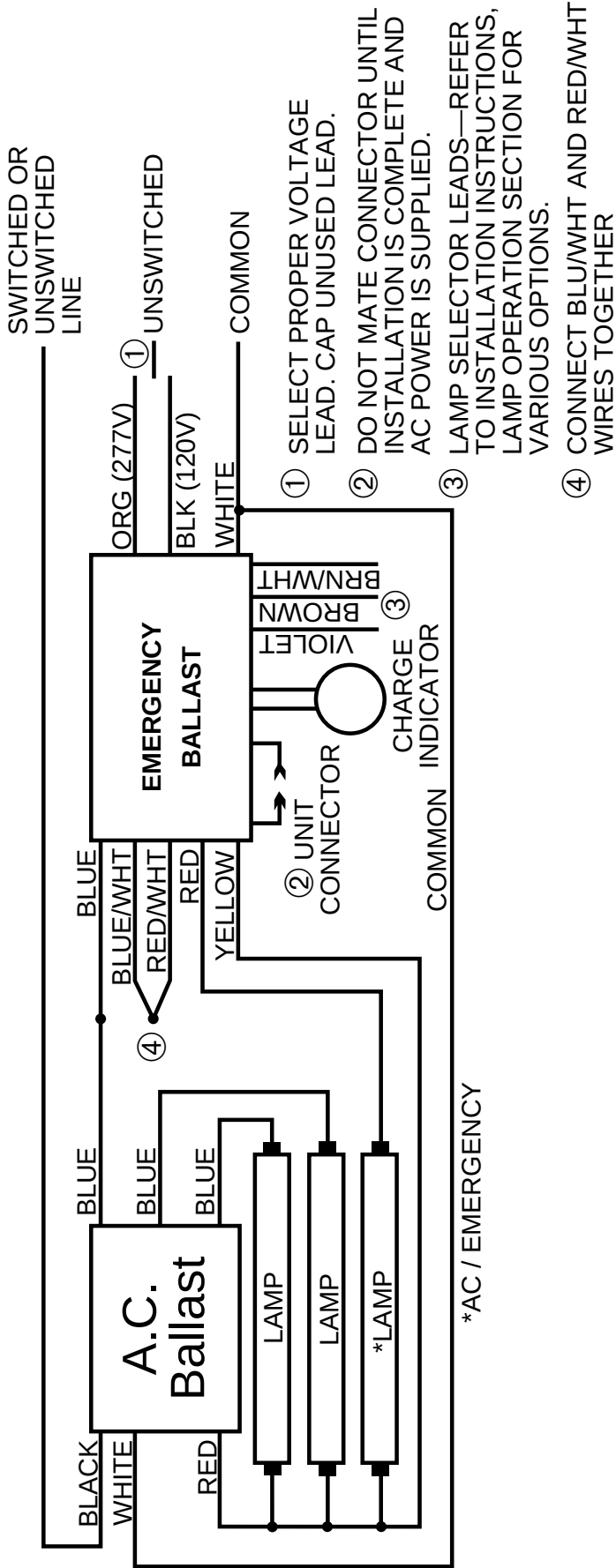
ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY EM PACK

TWO LAMP INSTANT START BALLAST



ADVANCE
RCN/VCN-2P32 REL-2P60-S-RH-TP REL/VEL-2P17-RH-TP REL/VEL-2P32-LW-RH-TP REL/VEL-2P32-RH-TP REL/VEL-2P32-SC REL/VEL-2P59-S-RH-TP REL/VEL-2S86-RH-TP VEL-2P75-S-RH-TP
EBT
ECG-120/277-2/32 PI SSB2-120/277-2/17 IS LH SSB2-120/277-2/32 IS LH SSB2-120/277-2/32 IS MPX LH SSB2-120/277-2/59 IS LH SSB2-120/277-2/96 IS LH /-(MEX)
GE
G2-1L-T8-8FT-120/277 G2-IN-T8-120/277
GOLDSTAR
GB 2x32/FL/I/120-277 GB 2x32/FL/I/120L-277L GB 2X32/FL/I/120HBF-277HBF
HOWARD
E2/32IS-120/277 EC2/32IS-120/277
KINGTEC
232K120-IS/277-IS 296K120-T12/277-T12 296K120-T8/277-T8
MAGNETEK
B232I120/277HP B232I120/277RH
MOTOROLA
M2-IL-T8-GP-D-120/277 M2-IN-T8-D-120/277 M2-IN-T8-1LL-D-120/277 M2-IN-T8-8FT-A-120/277 M2-IN-T8-8GP-A-120/277 M2-IN-T8-GP-D-120/277
ALL COMPATIBLE BALLASTS MAY NOT BE LISTED. *DIMMING CONTROL WIRES ARE NOT AFFECTED BY EM PACK

THREE LAMP INSTANT START BALLAST



ADVANCE

RCN/VCN-3P32
REL/VEL-3P32-RH-TP
REL/VEL-3P32-LW-RH-TP

EBT

SSB2-120/277-3/32 IS LH

GE

G3-IN-T8-120/277

GOLDSTAR

GB 3x32/FL/I/120-277
GB 3x32/FL/I/120L-277L

HOWARD

E3/32IS-120/277
EC3/32IS-120/277
ECL3/32IS-120/277
EL3/32IS-120/277

MAGNETEK

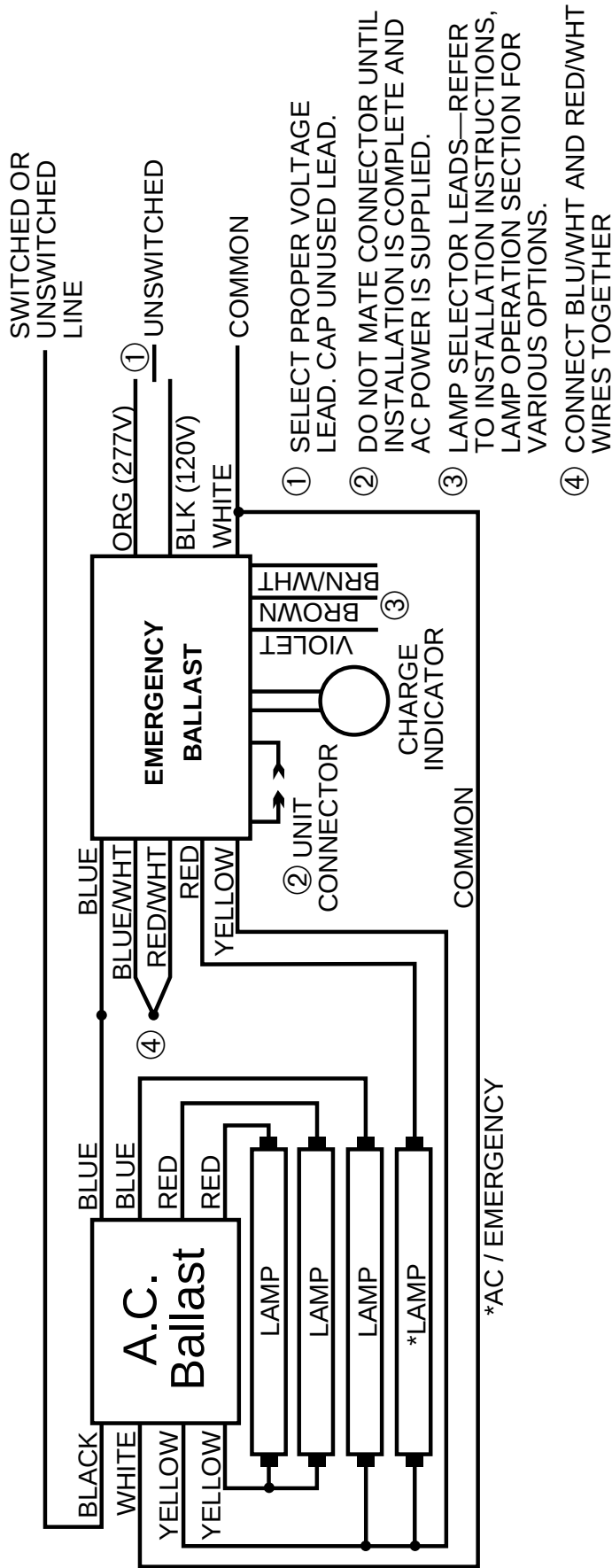
B332I120/277RH
B332I120/277HP

MOTOROLA

M3-IL-T8-GP-A-120/277
M3-IN-T8-A-120/277
M3-IN-T8-D-120/277
M3-IN-T8-GP-A-120/277

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY
EM PACK

FOUR LAMP INSTANT START BALLAST



ADVANCE

RCN/VCN-4P32
REL/VEL-4P32-RH-TP
REL/VEL-4P32-LW-RH-TP

EBT

SSB2-120/277-4/32 IS LH /-(75%)

GE

G4-IN-T8-120/277

GOLDSTAR

GB 4x32/FL/I/120-277
GB 4x32/FL/I/120L-277L

HOWARD

E4/32IS-120/270
EC4/32IS-120/277

KINGTEC

432K120-IS/277-IS
432K120-75%

MAGNETEK

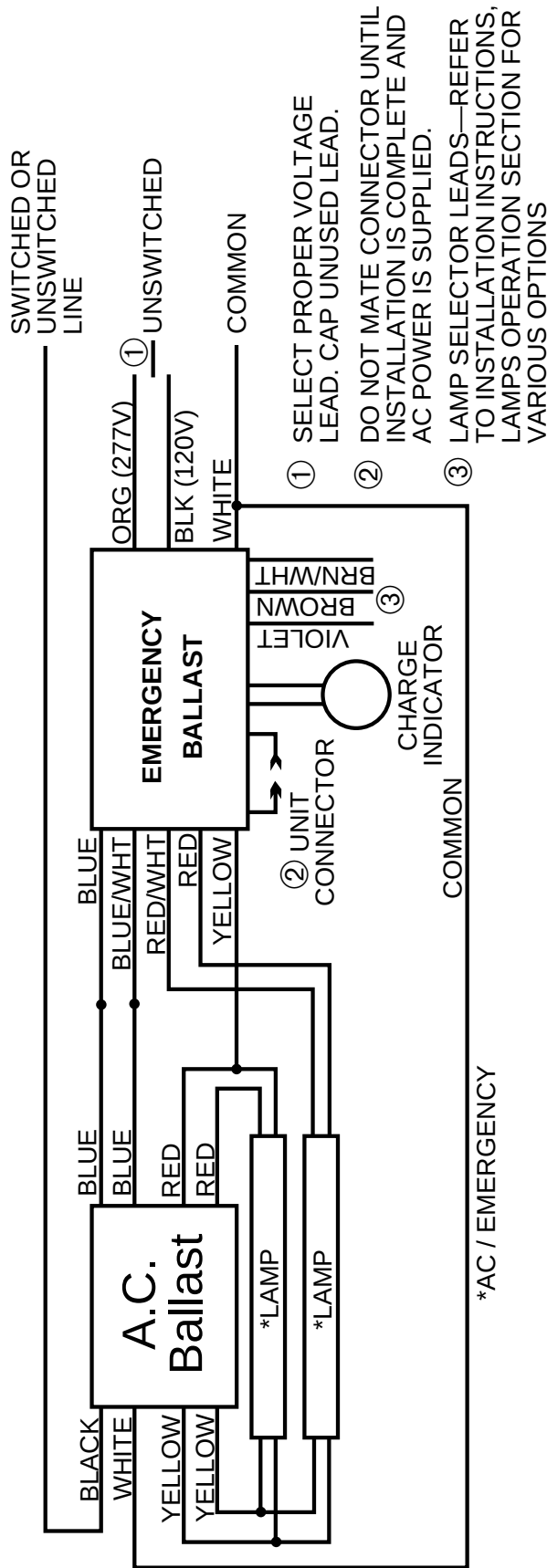
B432I120/277HP
B432I120/277RH

MOTOROLA

M4-IL-T8-GP-A-120/277
M4-IN-T8-A-120/277
M4-IN-T8-D-120/277
M4-IN-T8-GP-A-120/277

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY EM PACK

TWO LAMP RAPID START BALLAST WITH TWO LAMP EMERGENCY OPERATION



ADVANCE

HM/VM-2SP20-TP
R/V-2P817-TP
R/V-2P825-TP
R/V-2P832-TP
R/V-2P840-TP
R/V-2S40-TP
R/V-2SP30-TP
R/V-2S110-TP
RC/VC-2SP40-TP
RC/VC-2S85-TP
RC-2SP830-TP
RCN/VCN-2S32
RCN/VCN-2S40
REL/VEL-2S40-RH-TP
RL-2SP20-TP
RM-2S35-TP
RM/VM-2SP30-TP
RIC/VIC-2S32
RIC/VIC-2S40-TP
RK/VK-2S32-TP
RK/VK-2S34-TP
RK/VK-2S40-TP
RK/VK-2S110-TP
REZ/VEZ-2S32
RS/VS-2S60-TPS
RS/VS-2S110-TP
RZT/VZT-2S32*

EBT

ECG-120/277-2/32 SR
ECG-120/277-2/40 SR
SSB1-120/277-2/32 LH
SSB1-120/277-2/40 LH /-(75%)/-(MPX)
SSB7-120/277-2/32 LH

GE

G2-RH-T8-1LL-120/277
G2-RL-T8-1LL-120/277
G2-RN-T8-10C-120/277
G2-RN-T8-1LL-120/277
G2-RN-T12-1LL-120/277

KINGTEC

232K120/277
232K120-75%
232K2120
240K120/277

LUTRON

ECO T832-120/277-2*
FDB 4827-120/277-2*

MAGNETEK

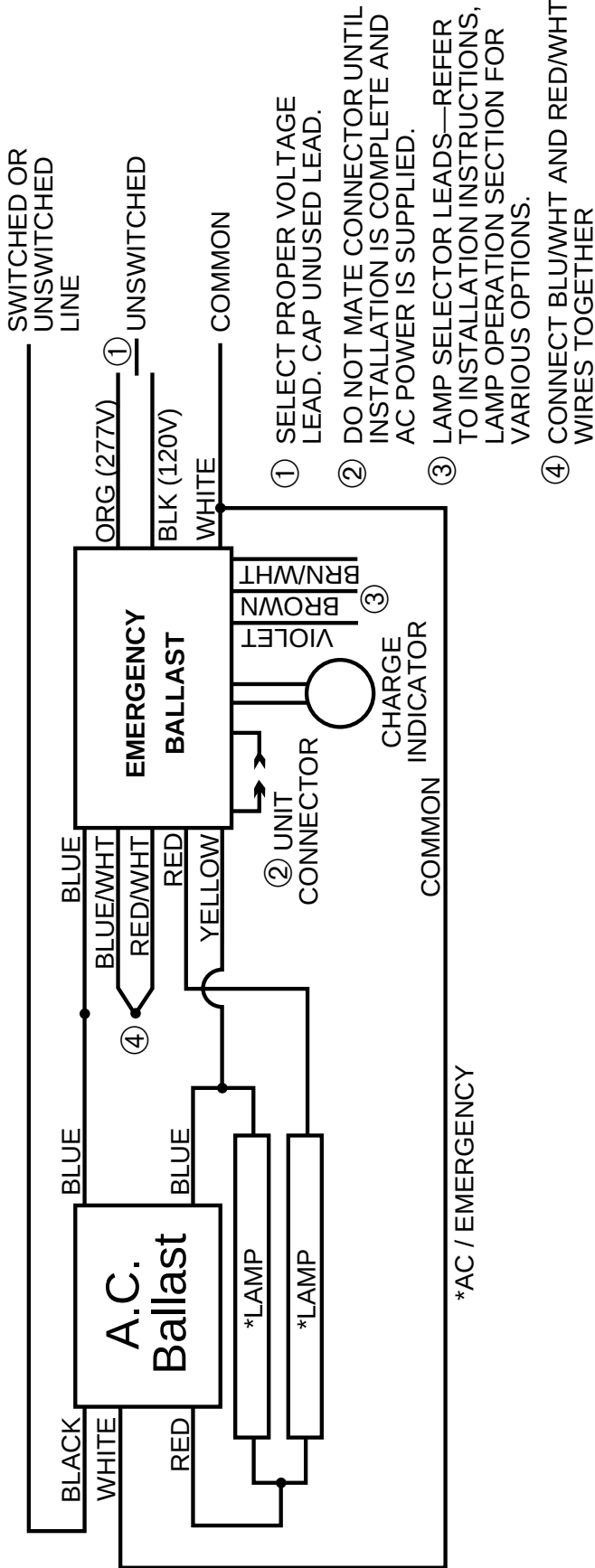
GB 2X32/FL/R/VHP

MOTOROLA

M2-RH-T8-1LL-B-120/277
M2-RL-T8-1LL-A-120/277
M2-RN-T12-1LL-B-120/277
M2-RN-T8-10C-B-120/277
M2-RN-T8-1LL-D-120/277

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY
EM PACK

TWO LAMP INSTANT START BALLAST WITH
TWO LAMP EMERGENCY OPERATION



ADVANCE

RCN/VCN-2P32
REL/VEL-2P17-RH-TP
REL/VEL-2P32-LW-RH-TP
REL/VEL-2P32-RH-TP
REL/VEL-2P32-SC

EBT

ECG-120/277-2/32 PI
SSB2-120/277-2/17 IS LH
SSB2-120/277-2/32 IS LH
SSB2-120/277-2/32 IS MPX LH

GE

G2-IN-T8-120/277

GOLDSTAR

GB 2x32/FL/I/120-277
GB 2x32/FL/I/120L-277L
GB 2x32/FL/I/120HBF-277HBF

HOWARD

E2/32IS-120/277
EC2/32IS-120/277

KINGTEC

232K120-IS/277-IS

MAGNETEK

B232I120/277HP
B232I120/277RH

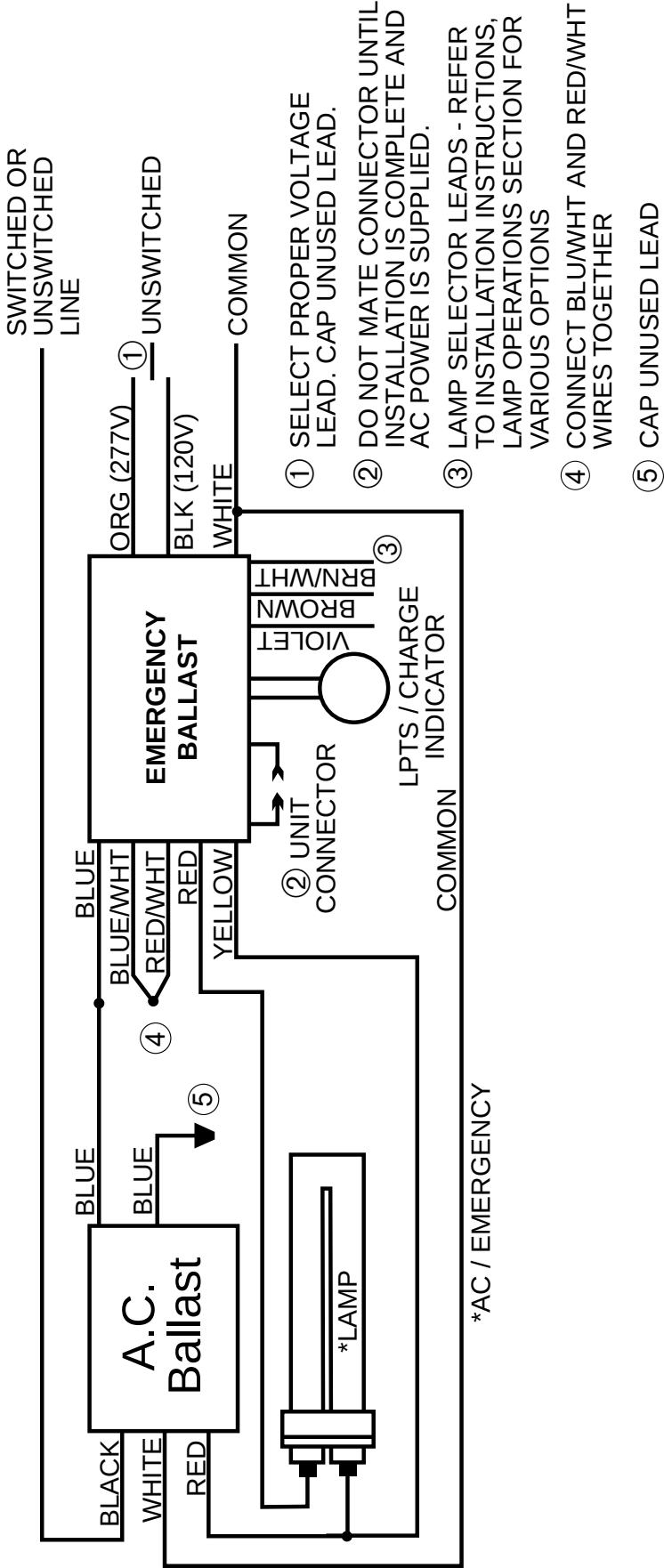
MOTOROLA

M2-IL-T8-GP-D-120/277
M2-IN-T8-D-120/277
M2-IN-T8-1LL-D-120/277
M2-IN-T8-GP-D-120/277

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
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EM PACK

1LBX_160

ONE LAMP BIAx

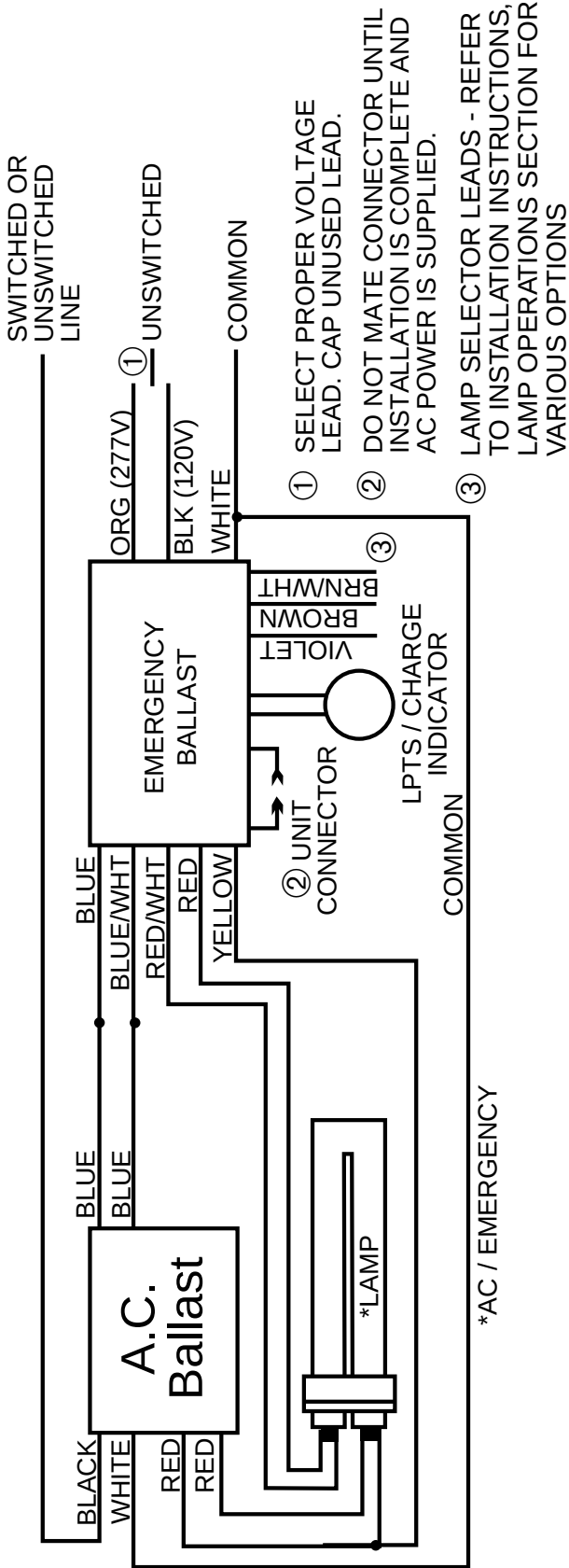


MAGNETEK

C240I120/277RH

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
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ONE BIAX LAMP RAPID START BALLAST



ADVANCE

R/V-1BP27-TP
R/V-1BP39-TP
R/V-1BP40-TP

EBT

SSB1-120/277-1/50 TT LH

MOTOROLA

M1-RL-T8-1LL-A-120/277
M1-RL-T8-050-D-120
M1-RN-T12-1LL-B-120/277
M1-RN-T8-10C-B-120/277
M1-RN-T8-1LL-D-120/277
M1-RN-T8-HO-A-120/277
M1-RV-T8-001-B-120

Wiring Diagram:

- Input Lines:**
 - DIMMED HOT** (connected to Black and White terminals of the A.C. Ballast)
 - SWITCHED OR UNSWITCHED LINE** (connected to Org (277V) terminal of the Emergency Ballast)
 - UNSWITCHED** (connected to Blk (120V) terminal of the Emergency Ballast)
- Ballast Connections:**
 - A.C. Ballast:** Black, White, Red, Red
 - Emergency Ballast:** Org (277V), Blk (120V), White
- Unit Connector:**
 - Connected to the Red terminal of the A.C. Ballast and the White terminal of the Emergency Ballast.
 - Terminals: VIOLET, BRN/WHT, BROWN, BROWN/WHT
- LPTS / CHARGE INDICATOR:** Connected to the VIOLET terminal of the Unit Connector.
- *LAMP:** Connected to the Red terminal of the A.C. Ballast and the White terminal of the Emergency Ballast.

Notes:

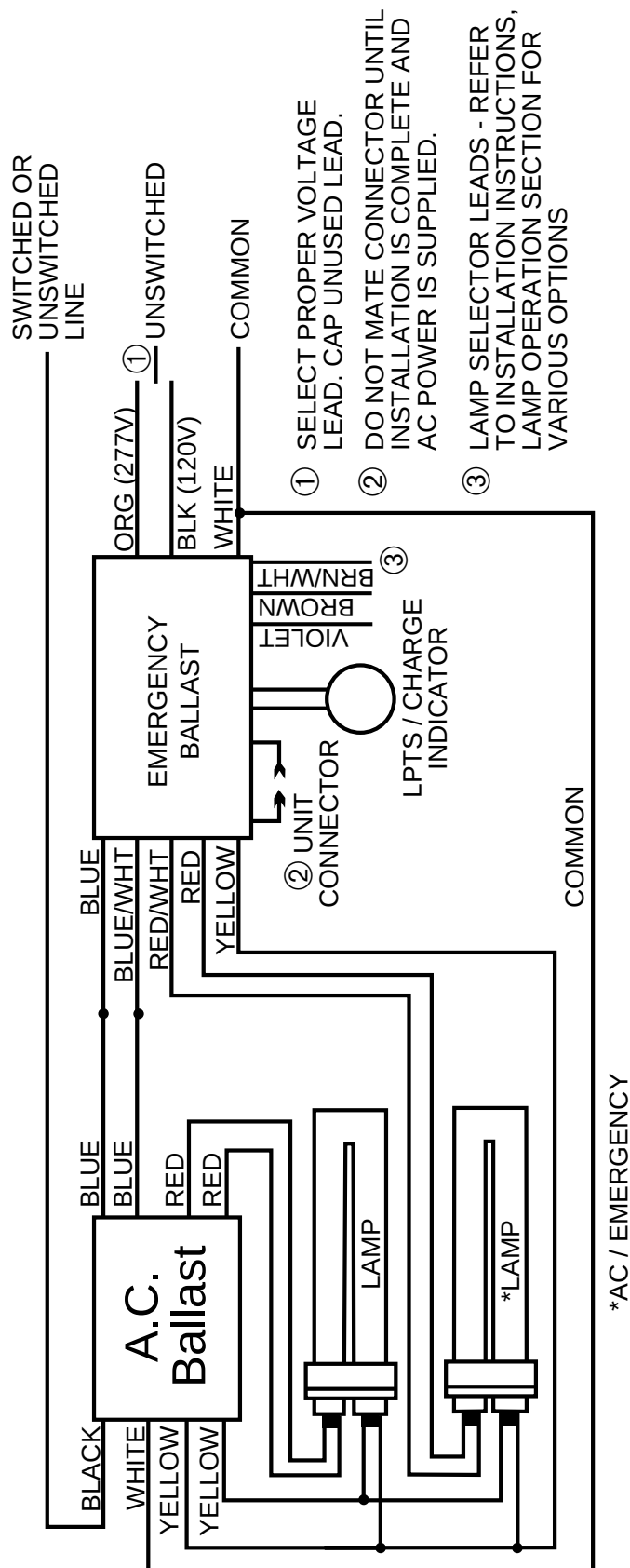
1. SELECT PROPER VOLTAGE LEAD. CAP UNUSED LEAD.
2. DO NOT MATE CONNECTOR UNTIL INSTALLATION IS COMPLETE AND AC POWER IS SUPPLIED.
3. LAMP SELECTOR LEADS - REFER TO INSTALLATION INSTRUCTIONS, LAMP OPERATIONS SECTION FOR VARIOUS OPTIONS.

***AC / EMERGENCY**

ECO-T540-120/277-1

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
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EM PACK

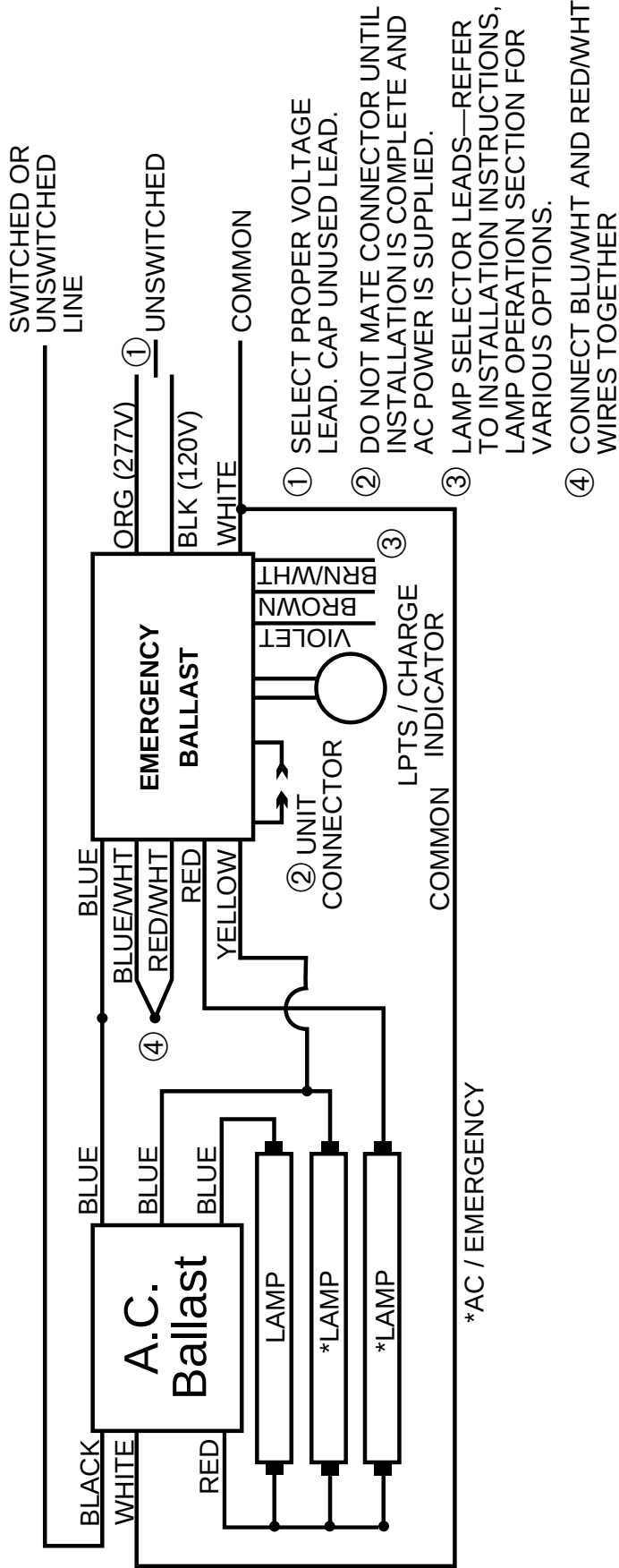
TWO COMPACT LAMP RAPID START BALLAST



ADVANCE
R/V-2BS27-TP
R/V-2BS39-TP
R/V-2BS40-TP
EBT
SSB1-120/277-2/39 TT LH
SSB1-120/277-2/40 TT LH /-(75%)
SSB1-120/277-2/50 TT LH
GE
G2-RN-T5/40-ILL-120/277
LUTRON
ECO-T540-120/277-2
MOTOROLA
M2-CF-26-S-277
M2-RH-T8-1LL-B-120/277
M2-RL-T8-1LL-A-120/277
M2-RN-T12-1LL-B-120/277
M2-RN-T5/40-1LL-B-120/277
M2-RN-T8-10C-B-120/277
M2-RN-T8-1LL-D-120/277

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
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 EM PACK

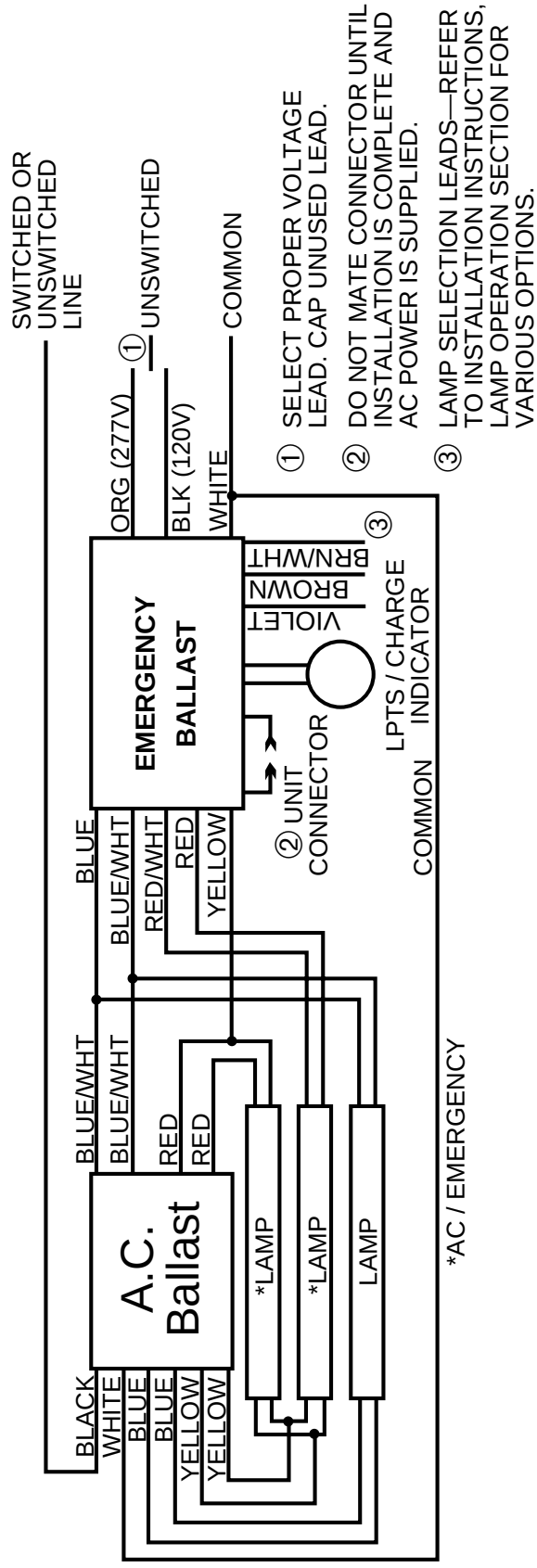
THREE LAMP INSTANT START BALLAST WITH
TWO LAMP EMERGENCY OPERATION



ADVANCE
RCN/VCN-3P32 REL/VEL 3P32-RH-TP REL/VEL-3P32-LW-RH-TP
EBT
SSB2-120/277-3/32 IS LH
GE
G3-IN-T8-120/277
GOLDSTAR
GB 3x32/FL/I/120-277 GB 3x32/FL/I/120L-277L
HOWARD
E3/32IS-120/277 EC3/32IS-120/277 ECL3/32IS-120/277 EL3/32IS-120/277
MAGNETEK
B332I120/277RH B332I120/277HP
MOTOROLA
M3-IL-T8-GP-A-120/277 M3-IN-T8-A-120/277 M3-IN-T8-D-120/277 M3-IN-T8-GP-A-120/277

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
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EM PACK

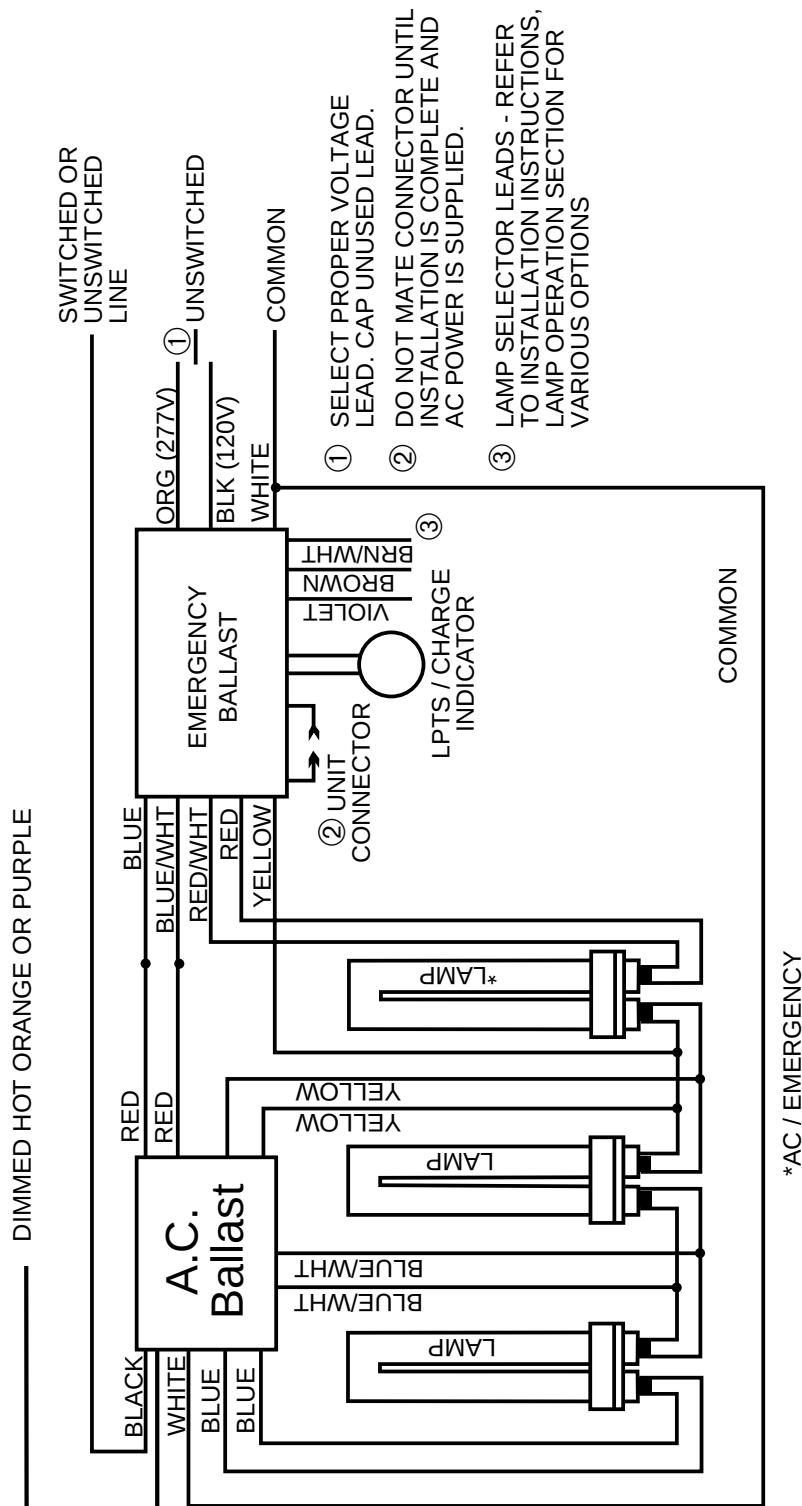
THREE LAMP RAPID START BALLAST WITH
TWO LAMP EMERGENCY OPERATION



ADVANCE
R/V-3S34-TP RCN/VCN-3S32 RCN/VCN-3S40 REL/VEL-3S40-RH-TP RIC/VIC-3S32-TP RIC/VIC-3S40-TP RK/VK-3S34-TP RL-3SP20-TP RZT/VZT-3S32* REZ/VEZ-3S32*
EBT
SSB1-120/277-3/32 LH SSB1-120/277-3/40 LH
GE
G3-RL-T8-1LL-120/277 G3-RN-T8-10C-120/277 G3-RN-T8-1LL-120/277 G3-RN-T12-1LL-120/277
LUTRON
ECO-T832-120/277-3* FDB-4827-120/277-3*
MOTOROLA
M3-RL-T8-1LL-A-120/277 M3-RN-T12-1LL-B-120/277 M3-RN-T8-1LL-A-120/277

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
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THREE BIAx RAPID START BALLAST WITH DIMMING CONTROL

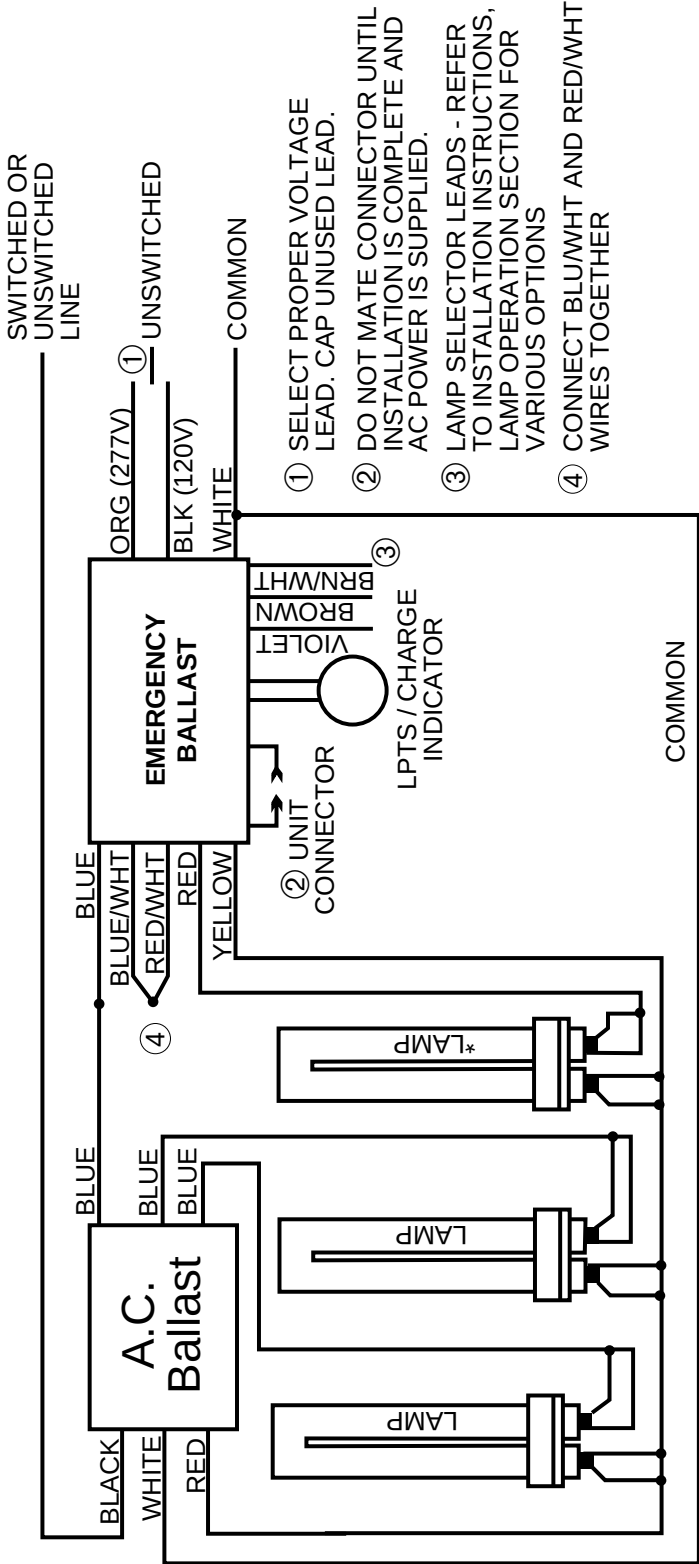


***AC / EMERGENCY**

[illegible]

3LBXIN_160

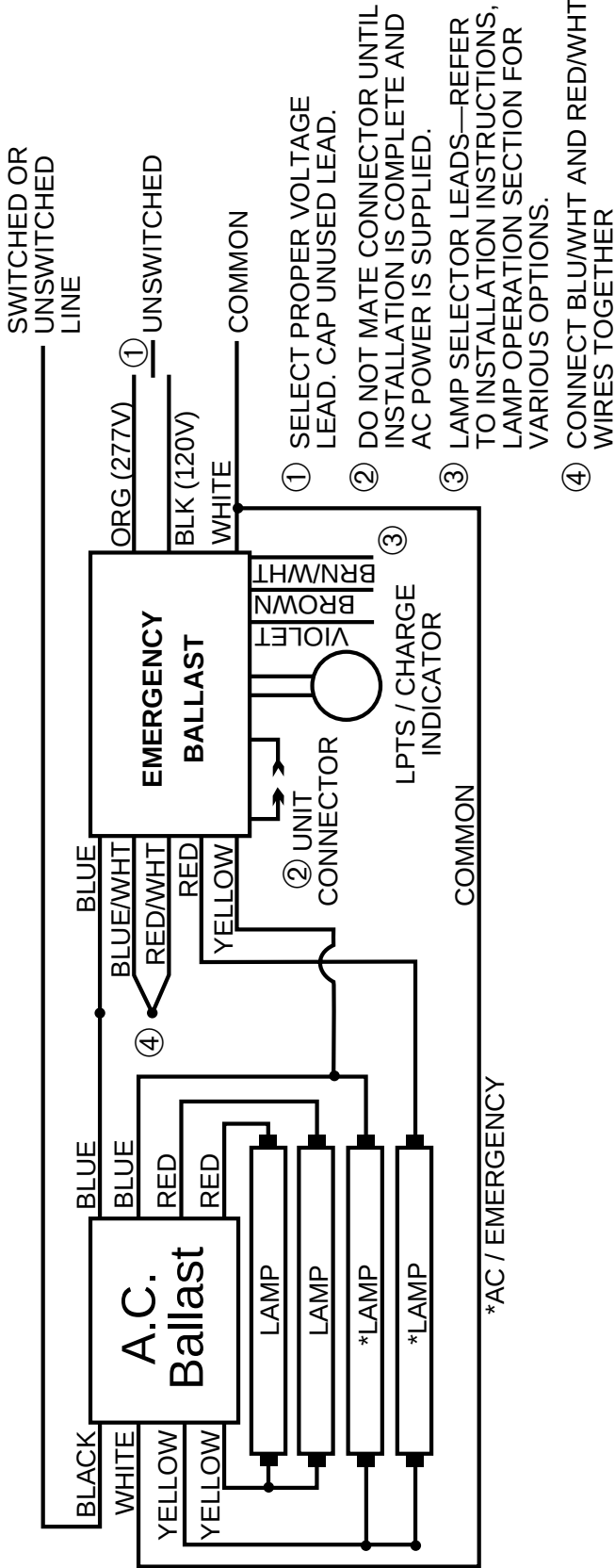
THREE LAMP BIAx INSTANT START



EBT
SSB2-120/277-3/40 IS TT LH
MAGNETEK
C340I120/277RH
MOTOROLA
M3-IL-T8-GP-A-120/277
M3-IN-T8-A-120/277
M3-IN-T8-GP-A-120/277

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY EM PACK

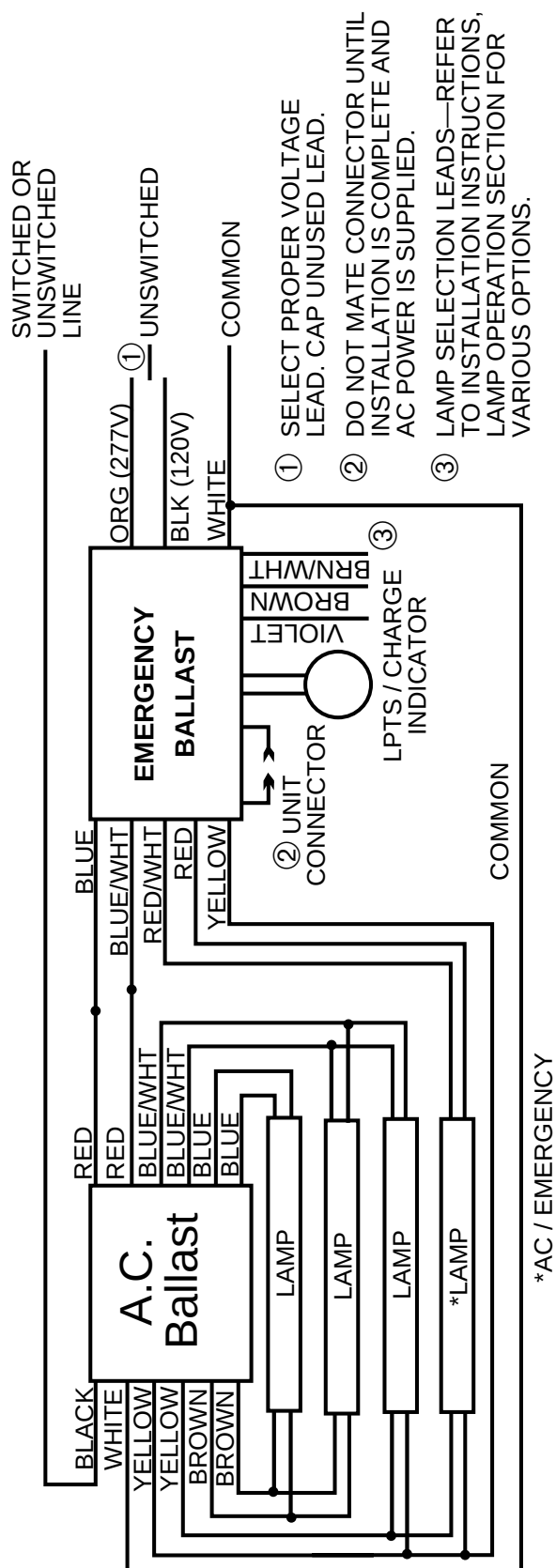
FOUR LAMP INSTANT START BALLAST WITH TWO LAMP EMERGENCY OPERATION



ADVANCE
RCN/VCN-4P32 REL/VEL-4P32-RH-TP REL/VEL-4P32-LW-RH-TP
EBT
SSB2-120/277-4/32 IS LH I-(75%)
GE
G4-IN-T8-120/277
GOLDSTAR
GB 4X32/FL/I/120-277 GB 4x32/FL/I/120L-277L
HOWARD
E4/32IS-120/277 EC4/32IS-120/277
KINGTEC
432K120-IS/277-IS 432K120-75%
MAGNETEK
B432I120/277HP B432I120/277RH
MOTOROLA
M4-IL-T8-GP-A-120/277 M4-IN-T8-A-120/277 M4-IN-T8-D-120/277 M4-IN-T8-GP-A-120/277

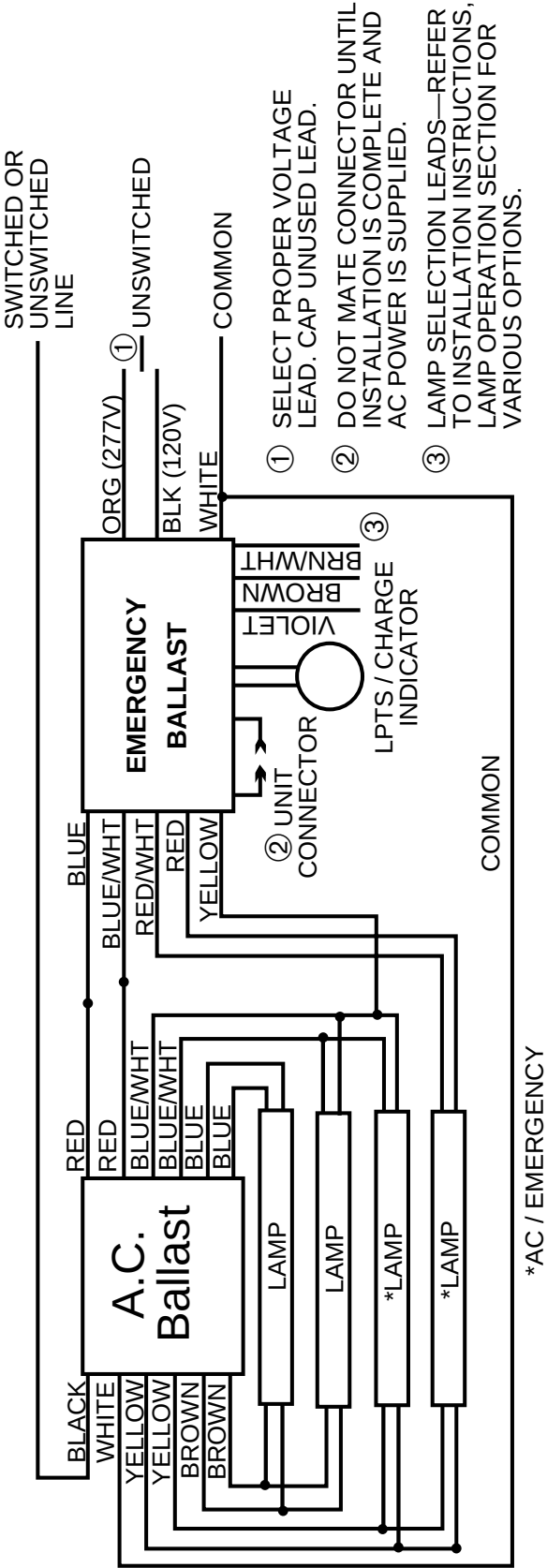
ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY
EM PACK

FOUR LAMP RAPID START BALLAST



ADVANCE
RC-4S60-TP
RC-4S85-TP
VCN-4S32-SC
GE
G4-RL-T8-1LL-120/277
G4-RN-T8-10C-120/277
G4-RN-T8-1LL-120/277
MOTOROLA
M4-RL-T8-1LL-A-120/277
M4-RL-T8-1LL-B-120/277
M4-RN-T8-1LL-A-120/277
M4-RN-T8-1LL-B-120/277

FOUR LAMP RAPID START BALLAST
WITH TWO LAMP EMERGENCY OPERATION



ADVANCE

RC-4S60-TP
RC-4S85-TP
VCN-4S32-SC

GE

G4-RL-T8-1LL-120/277
G4-RN-T8-10C-120/277
G4-RN-T8-1LL-120/277

MOTOROLA

M4-RL-T8-1LL-A-120/277
M4-RL-T8-1LL-B-120/277
M4-RN-T8-1LL-A-120/277
M4-RN-T8-1LL-B-120/277

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY
EM PACK

The diagram illustrates the wiring for the Emergency LED Light fixture. It shows the following components and connections:

- Power Lines:**
 - SWITCHED OR UNSWITCHED LINE:** Provides power to the Emergency Ballast.
 - ORG (277V):** Connected to the Emergency Ballast.
 - BLK (120V):** Connected to the Emergency Ballast.
 - WHITE:** Connected to the Emergency Ballast.
- Emergency Ballast:** A rectangular component with terminals for BLUE, BLUE/WHT, RED/WHT, RED, YELLOW, and COMMON.
- A.C. Ballast:** A rectangular component with terminals for BLACK, WHITE, and RED.
- Unit Connector:** A circular component with terminals for VIOLET, BROWN, and BRN/WHT.
- Lamps:** Two cylindrical components labeled *LAMP and LAMP.
- Connections:**
 - The **SWITCHED OR UNSWITCHED LINE** is connected to the **BLUE** terminal of the Emergency Ballast.
 - The **ORG (277V)** line is connected to the **BLUE/WHT** terminal of the Emergency Ballast.
 - The **BLK (120V)** line is connected to the **RED/WHT** terminal of the Emergency Ballast.
 - The **WHITE** line is connected to the **RED** terminal of the Emergency Ballast.
 - The **COMMON** line is connected to the **YELLOW** terminal of the Emergency Ballast.
 - The **COMMON** line is also connected to the **COMMON** terminal of the Unit Connector.
 - The **COMMON** line is connected to the **COMMON** terminal of the A.C. Ballast.
 - The **COMMON** line is connected to the **COMMON** terminal of the Lamps.
 - The **COMMON** line is connected to the **COMMON** terminal of the Lamps.

Notes:

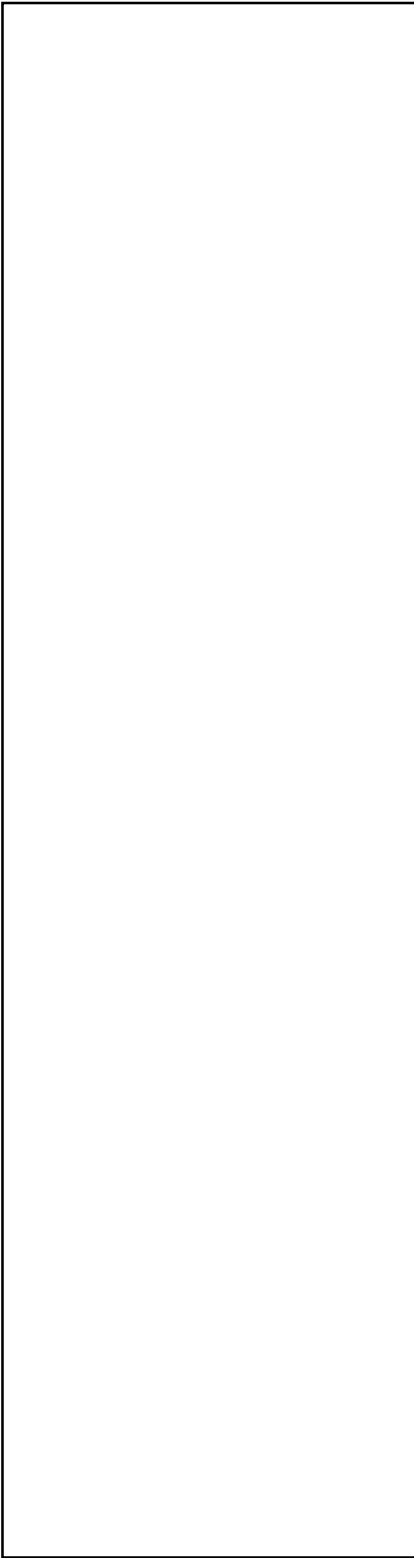
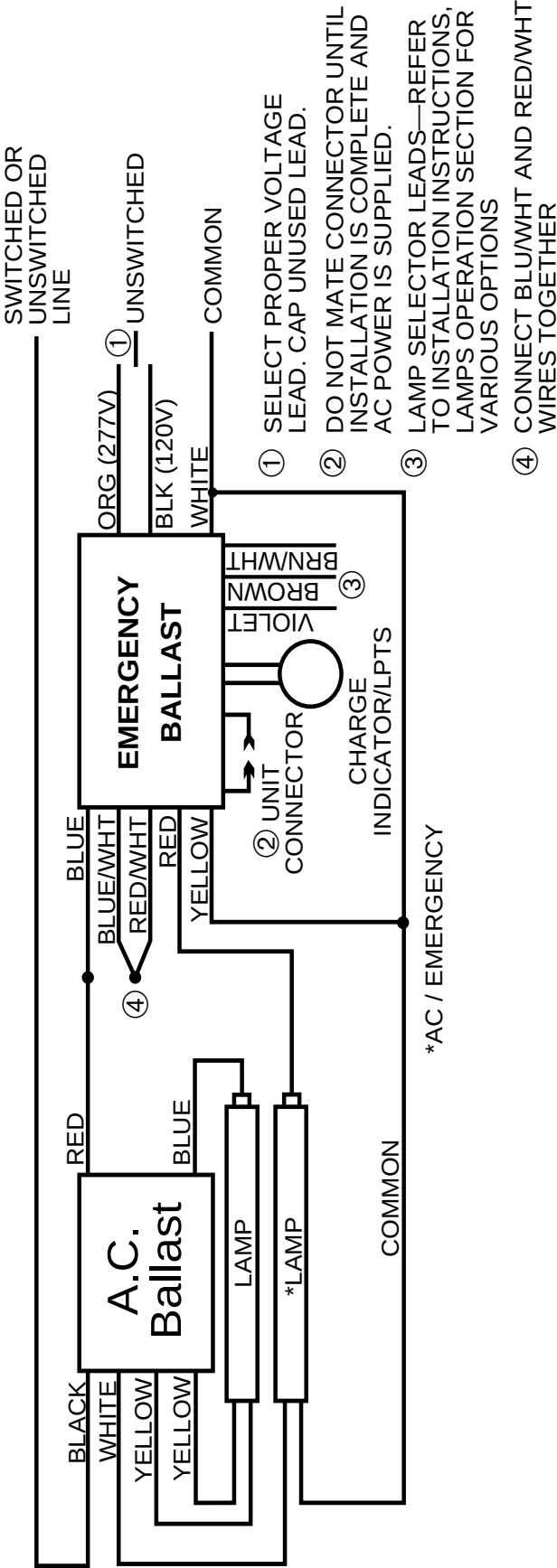
- SELECT PROPER VOLTAGE LEAD. CAP UNUSED LEAD.
- DO NOT MATE CONNECTOR UNTIL INSTALLATION IS COMPLETE AND AC POWER IS SUPPLIED.
- LAMP SELECTOR LEADS - REFER TO INSTALLATION INSTRUCTIONS, LAMP OPERATION SECTION FOR VARIOUS OPTIONS
- CONNECT BLUE/WHT AND RED/WHT WIRES TOGETHER

*AC / EMERGENCY

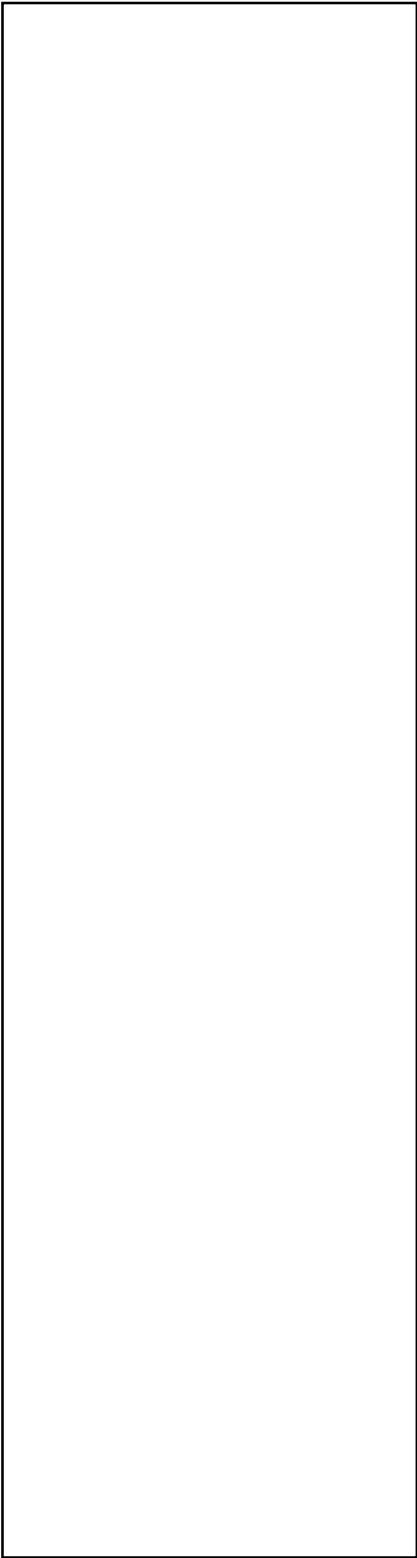
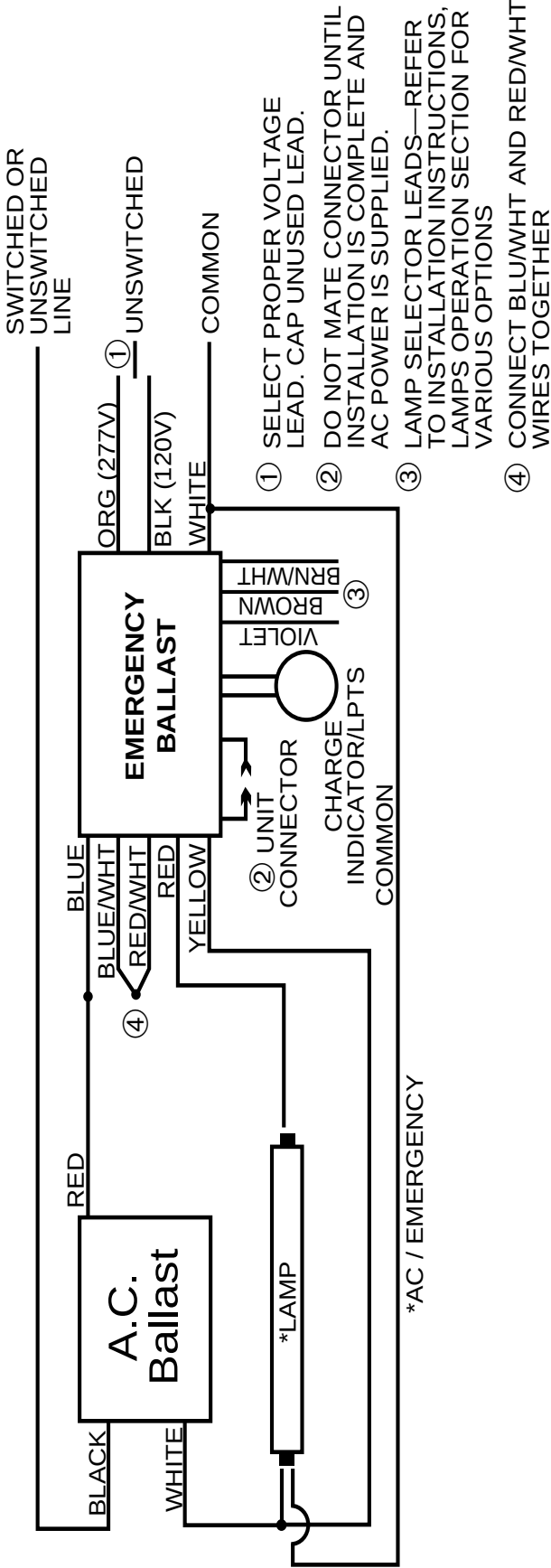
M2-IL-T8-GP-D-120/277
M2-IN-T8-D-120/277
M2-IN-T8-1LL-D-120/277
M2-IN-T8-8FT-A-120/277
M2-IN-T8-8GP-A-120/277
M2-IN-T8-GP-D-120/277

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY
EM PACK

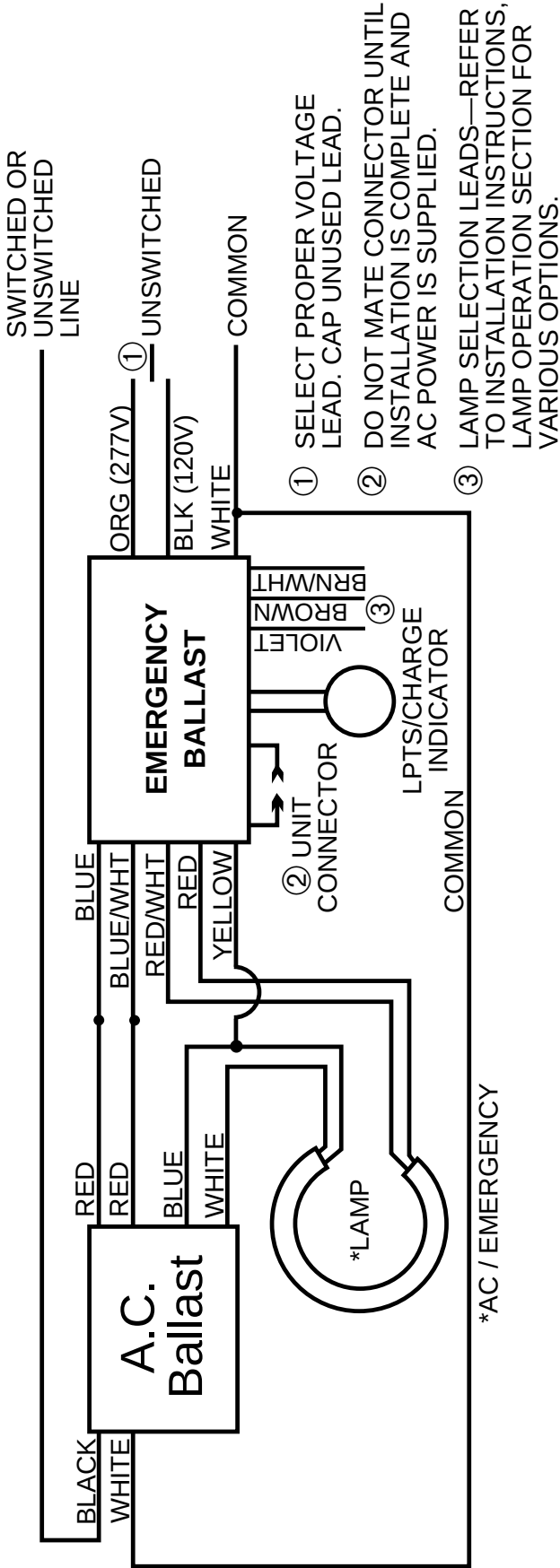
TWO LAMP BALLAST



ONE LAMP MAGNETIC BALLAST



ONE LAMP CIRCLINE RAPID START BALLAST

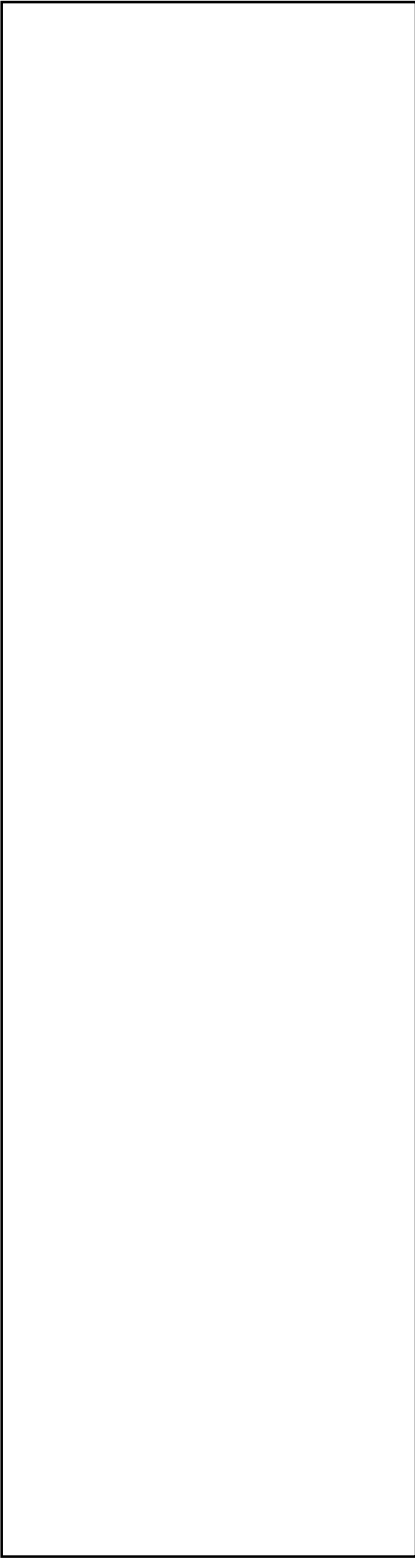
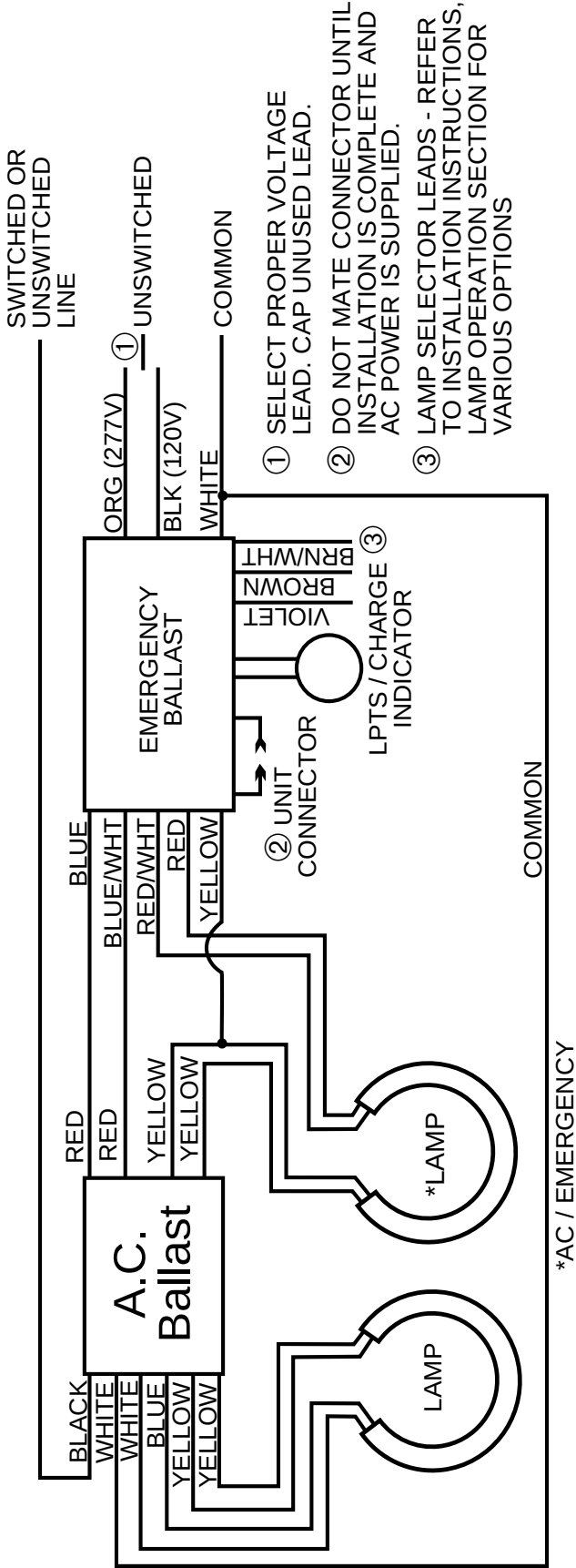


ADVANCE

RLCS-140-TP
RLQS-122-TP

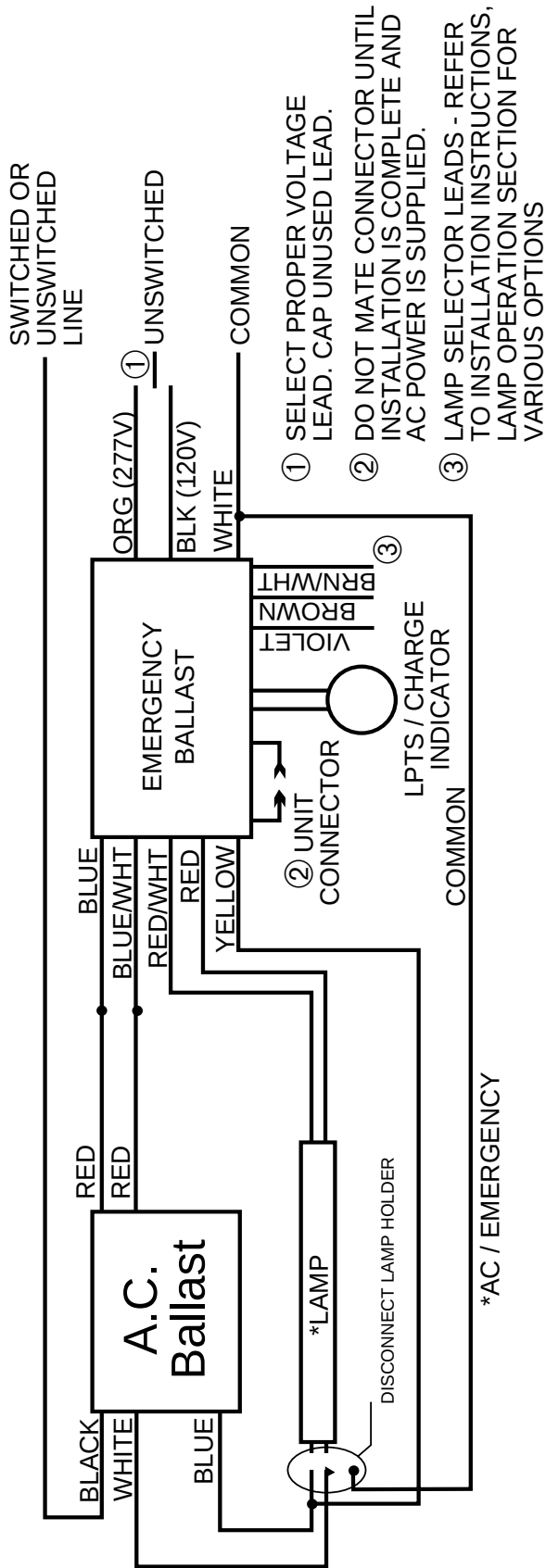
ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY
EM PACK

TWO LAMP CIRCLINE RAPID START BALLAST



1LLAG_160

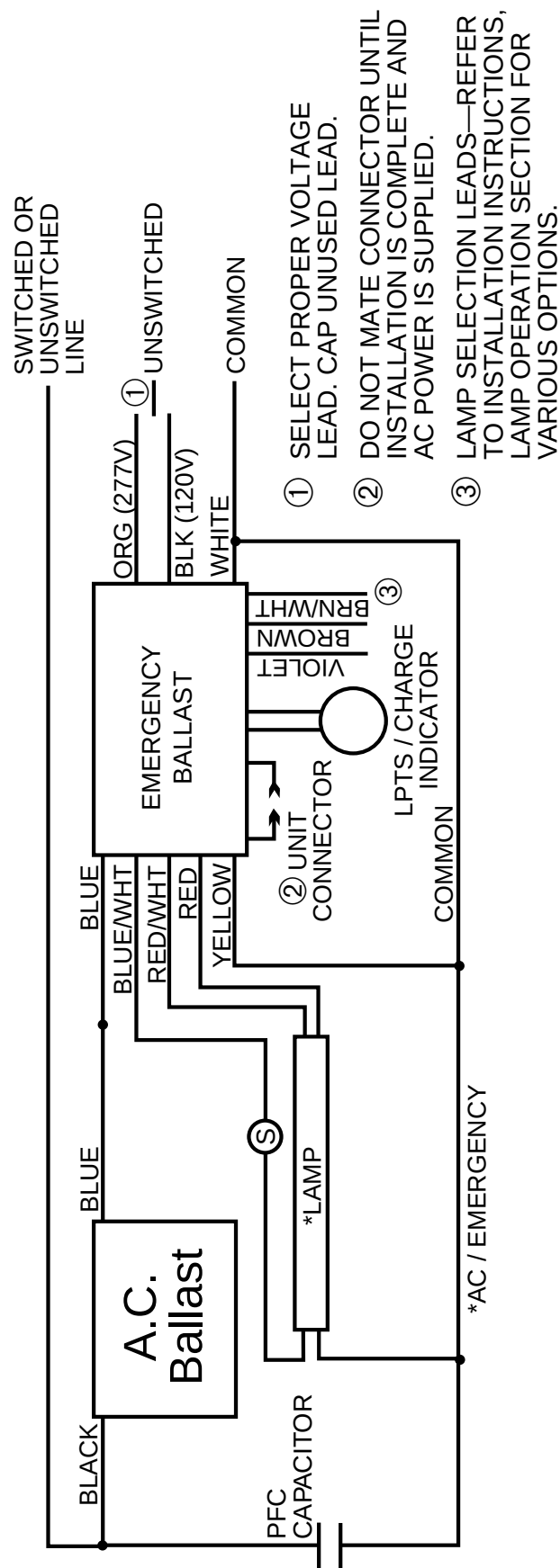
ONE LAMP LAG BALLAST



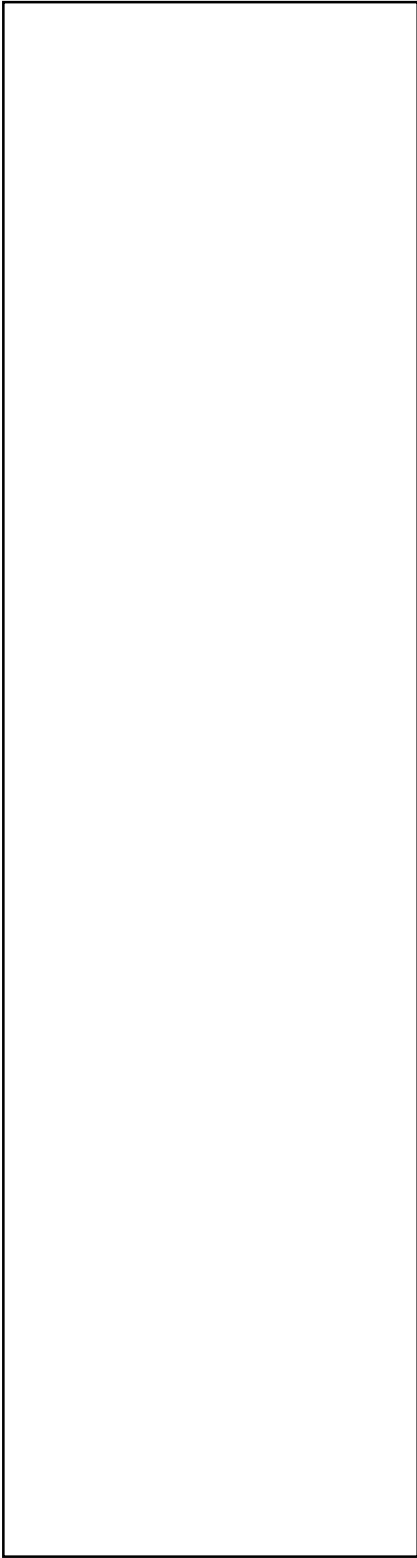
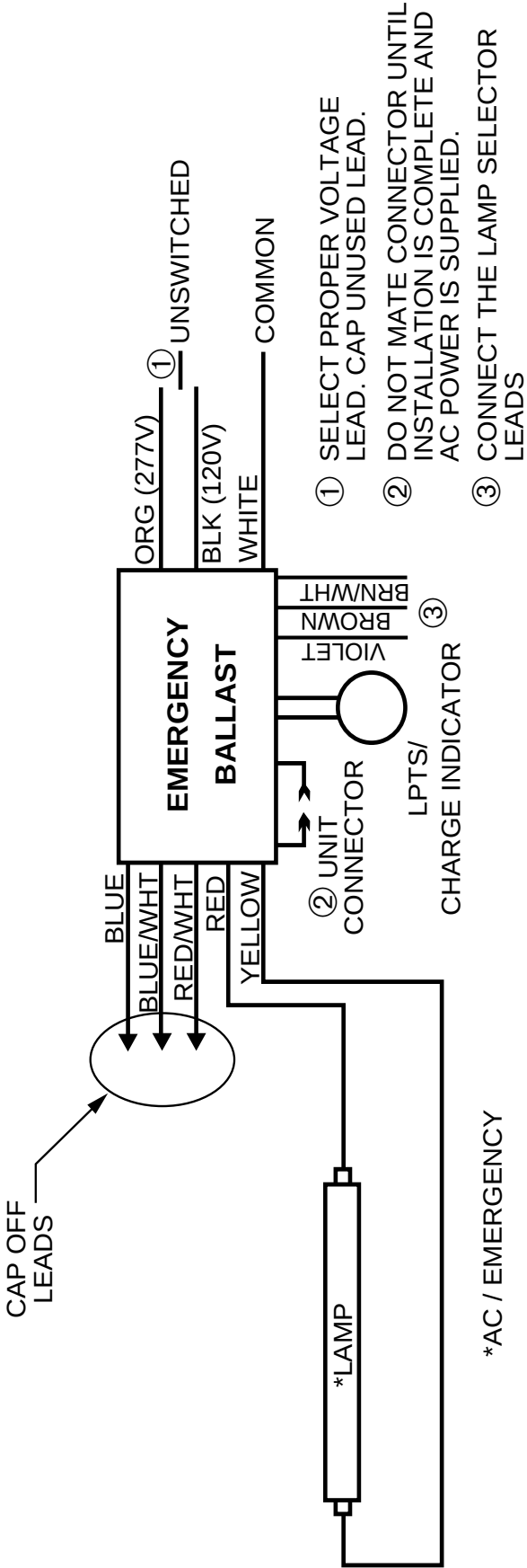
ADVANCE
RL-140-TP
MAGNETEK
543-B

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY
EM PACK

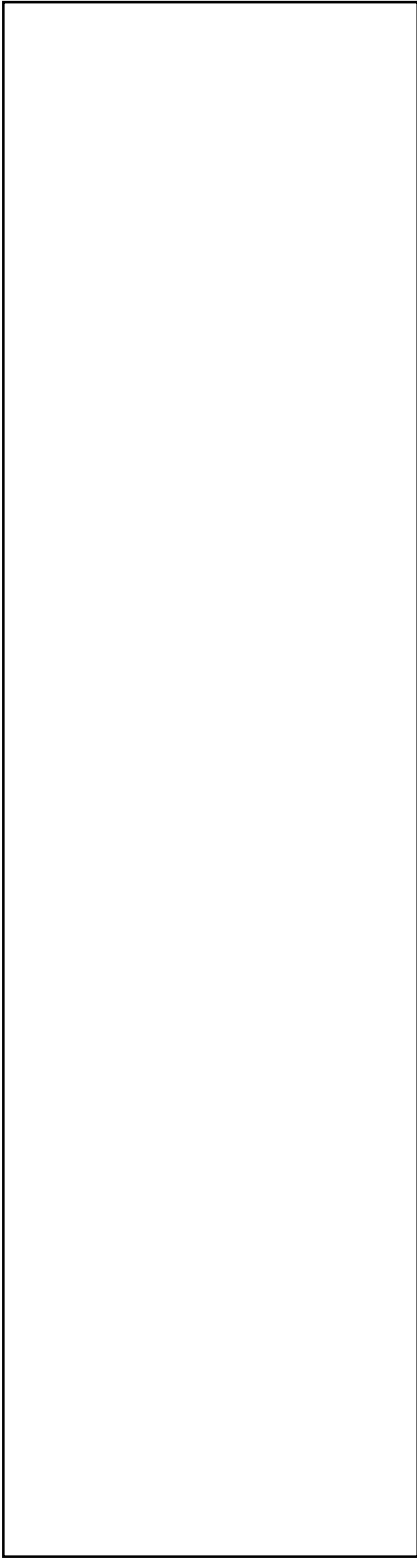
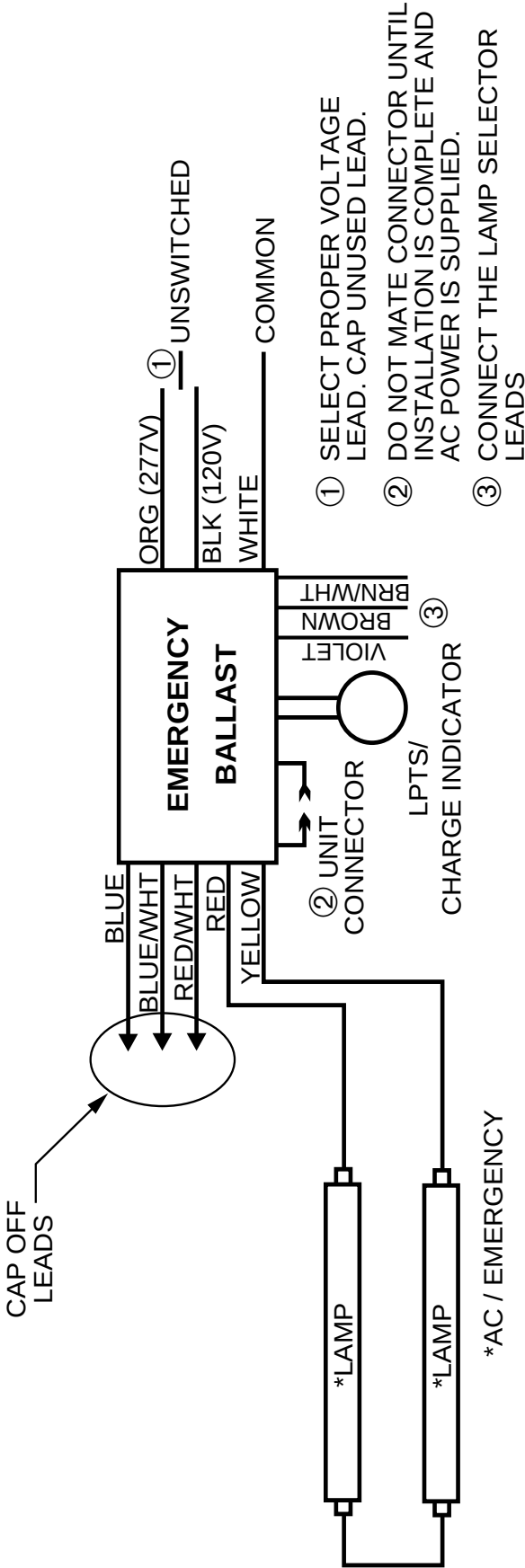
ONE LAMP PRE-HEAT START BALLAST



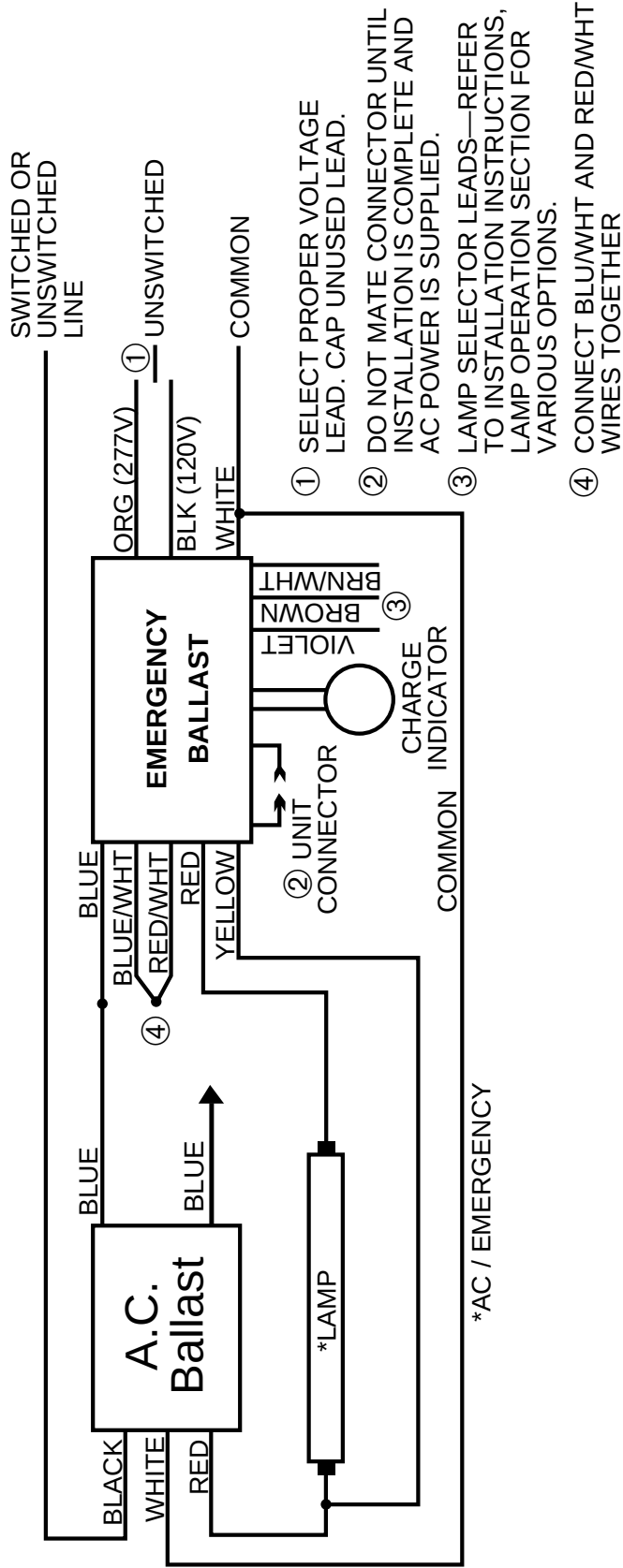
ONE LAMP EMERGENCY ONLY



TWO LAMP EMERGENCY ONLY



ONE LAMP TRIAD BALLAST

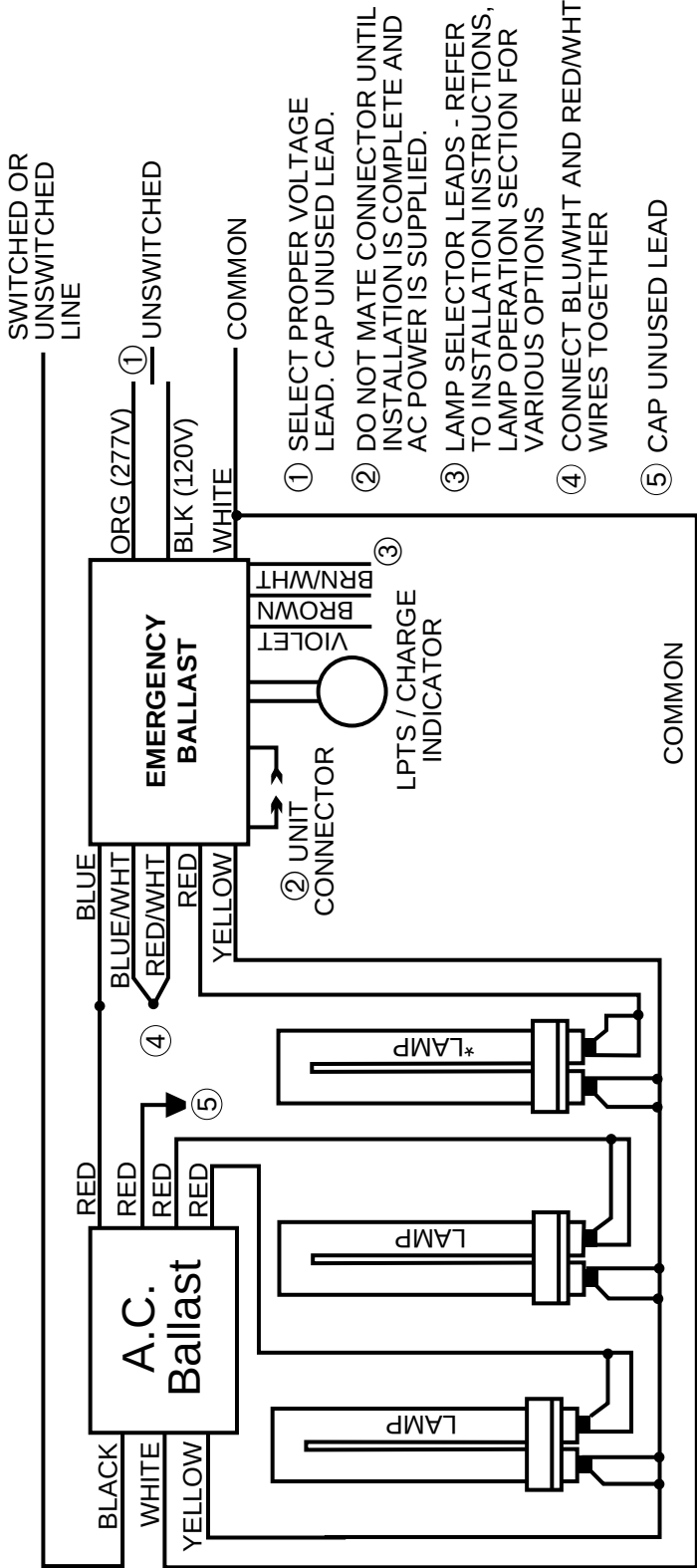


TRIAD

B240I 120/277

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY EM PACK

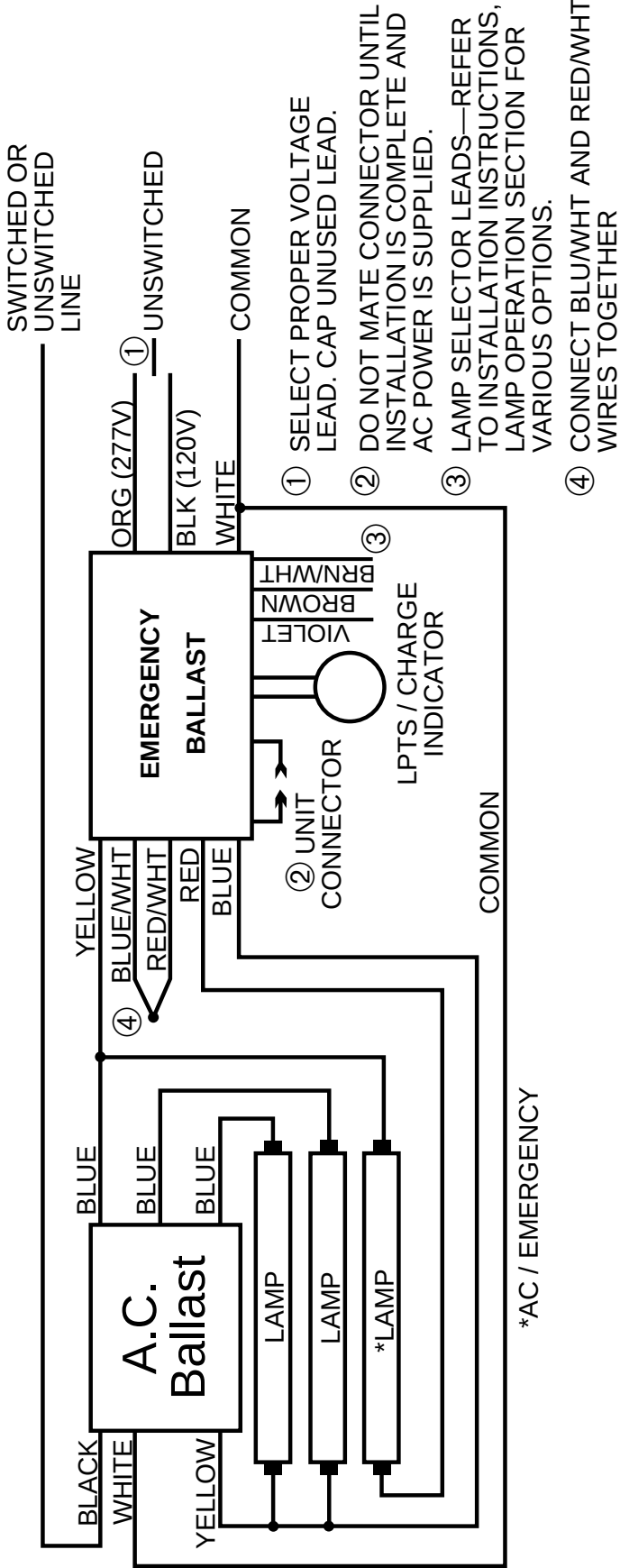
FULHAM WORKHORSE BALLAST



FULHAM
WH4-120-L
WH4-277-L
WH5-120-L
WH5-277-L
WH6-120-L
WH6-277-L

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY EM PACK

THREE LAMP INSTANT START BALLAST

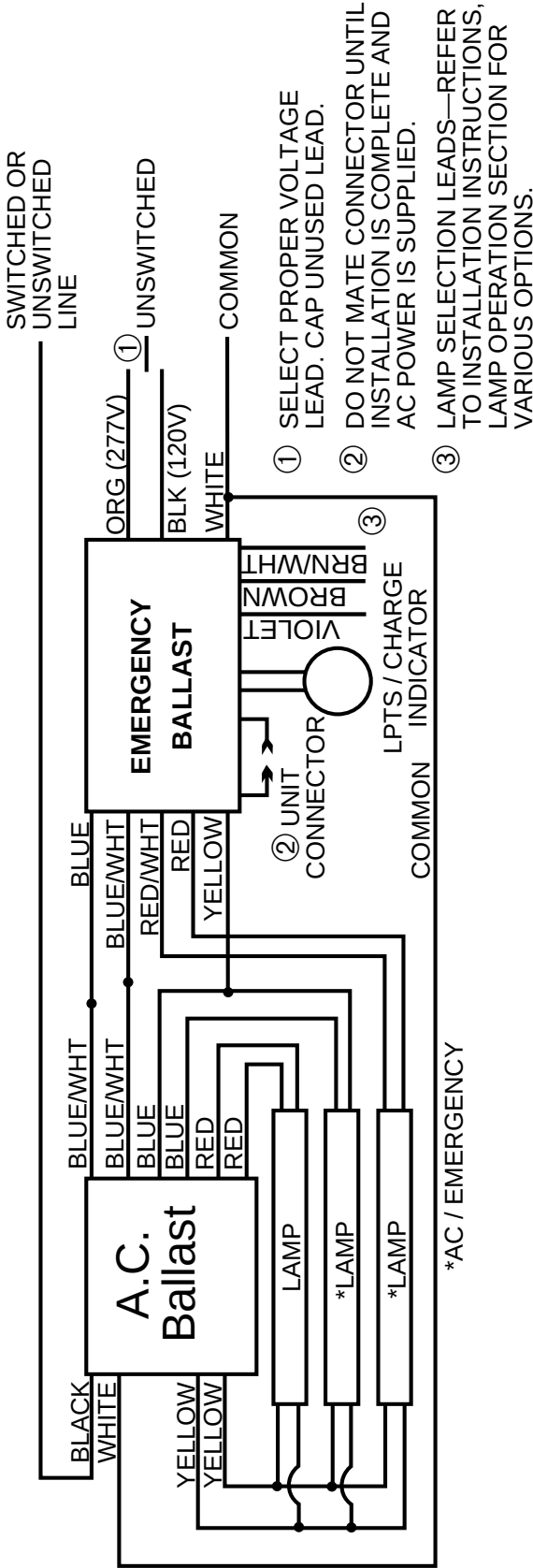


ADVANCE

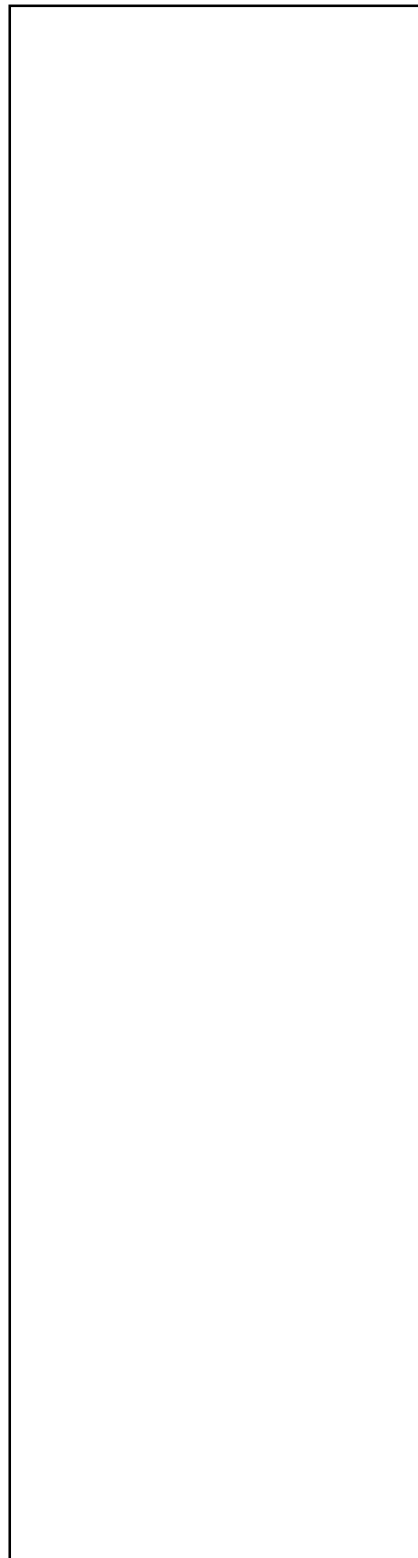
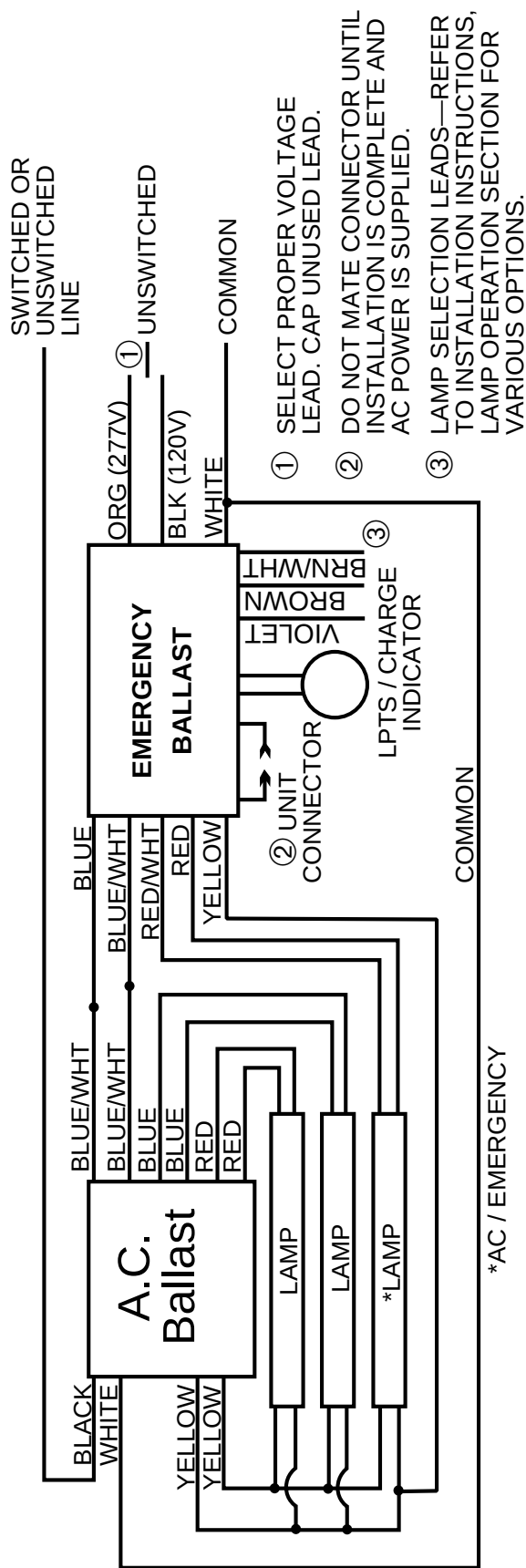
VCN 3P32

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY
EM PACK

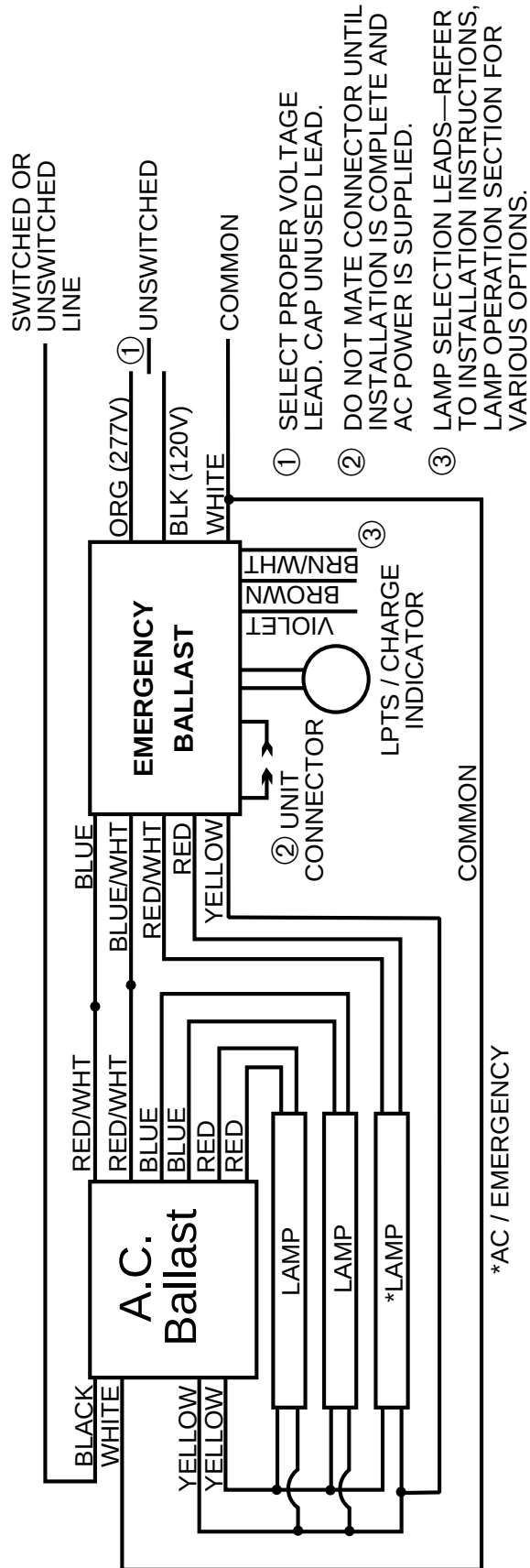
THREE LAMP RAPID START BALLAST WITH TWO LAMP EMERGENCY OPERATION



****AC / EMERGENCY**



THREE LAMP RAPID START BALLAST

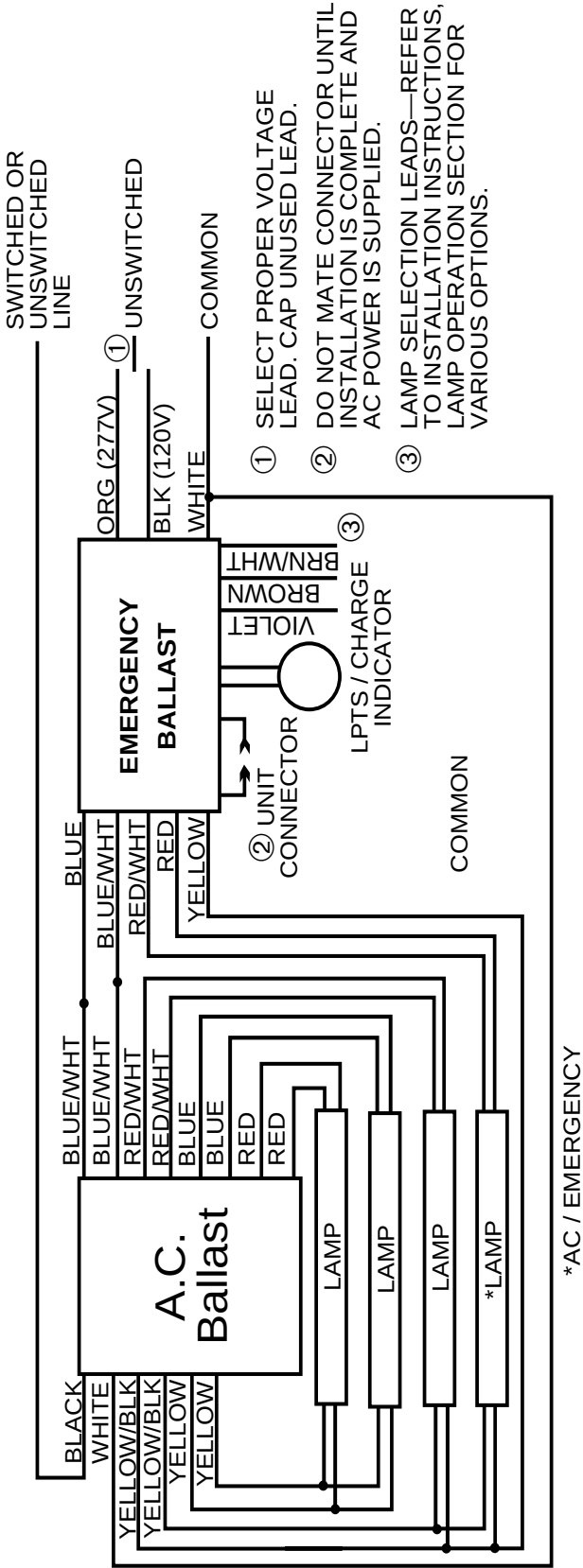


MAGNETEK

B332-R277HP
B332-R120HP

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY EM PACK

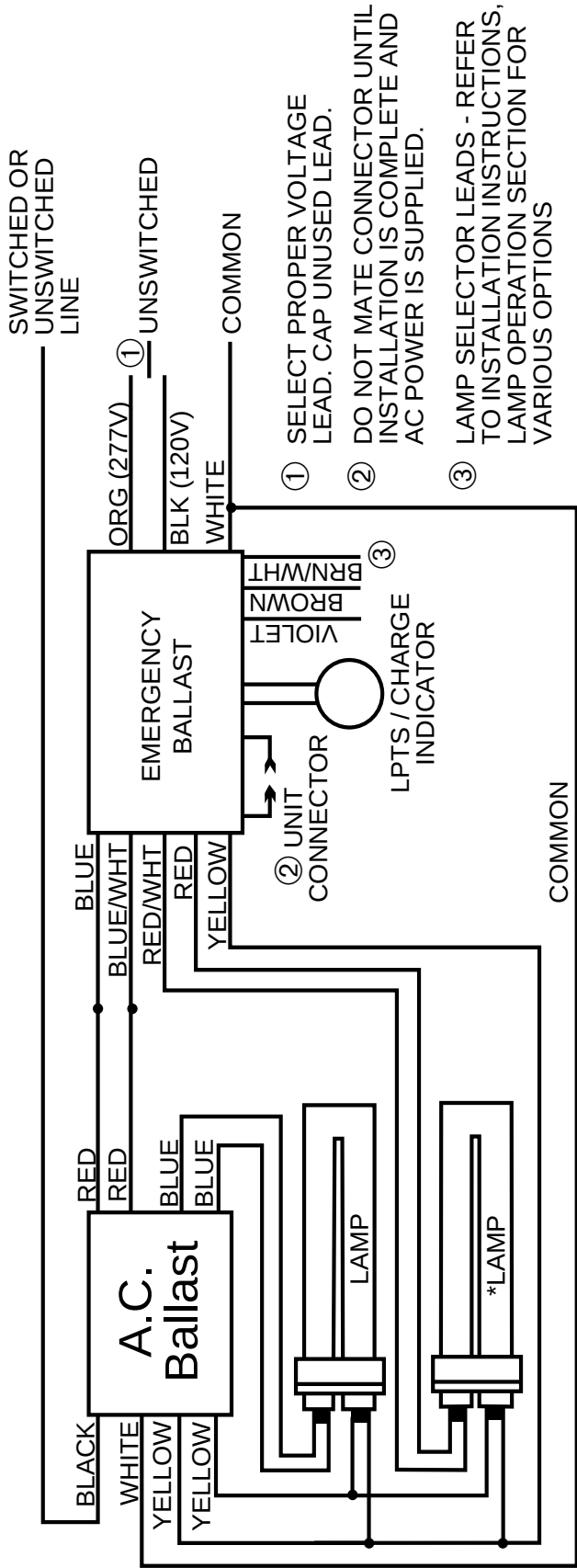
FOUR LAMP RAPID START BALLAST



MAGNETEK
B432 R277 HP

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY
EM PACK

TWO COMPACT LAMP RAPID START BALLAST

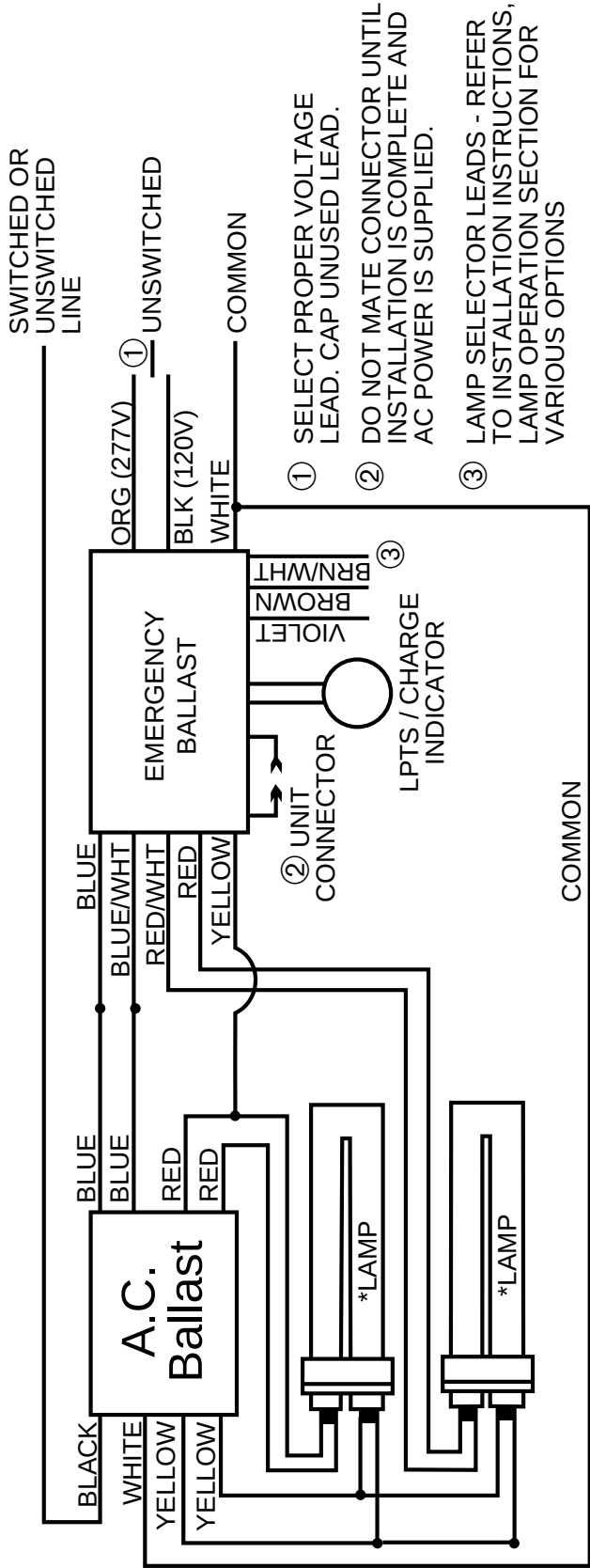


ENERGY SAVINGS

ES-2/1-CFQ-26-UNV-C or D

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY EM PACK

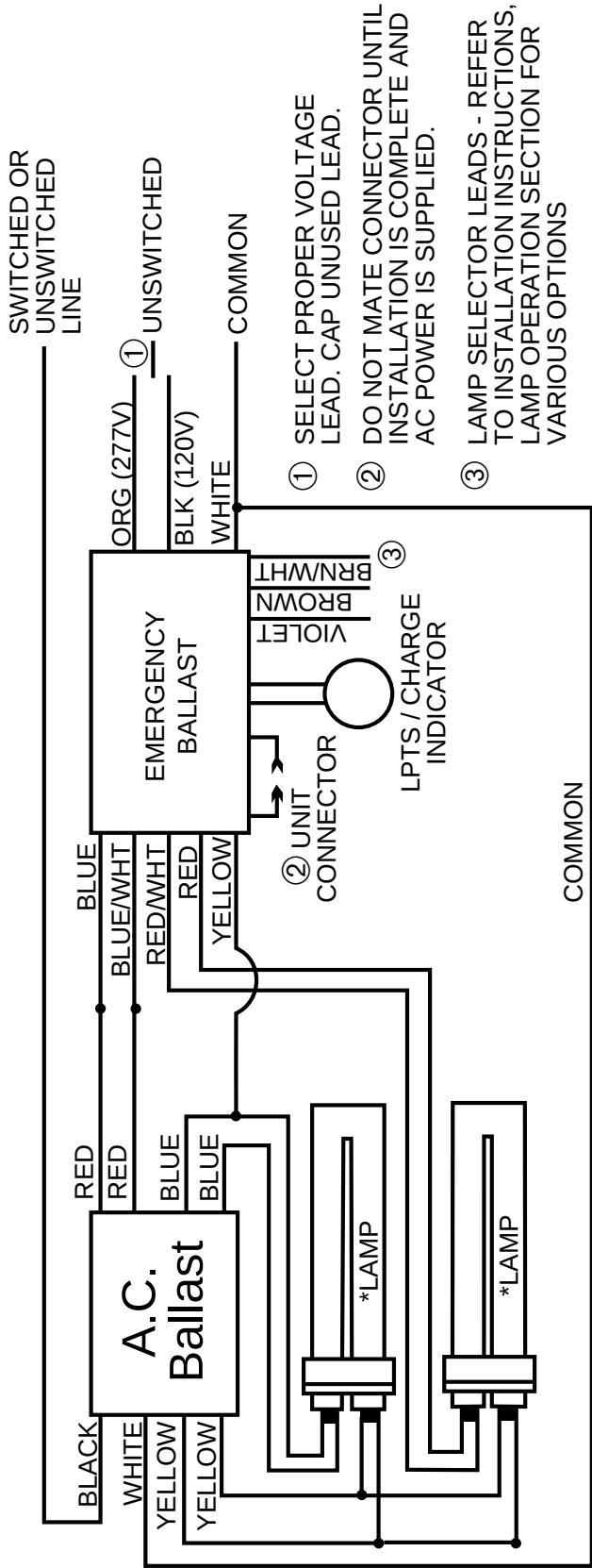
TWO COMPACT RAPID START BALLAST TWO LAMP OPERATION



ADVANCE
R/V-2BS27-TP R/V-2BS39-TP R/V-2BS40-TP
LUTRON
ECO-T540-120/277-2
MOTOROLA
M2-CF-26-S-277 M2-RN-T5/40-1LL-B-120/277

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY EM PACK

TWO COMPACT RAPID START BALLAST TWO LAMP OPERATION



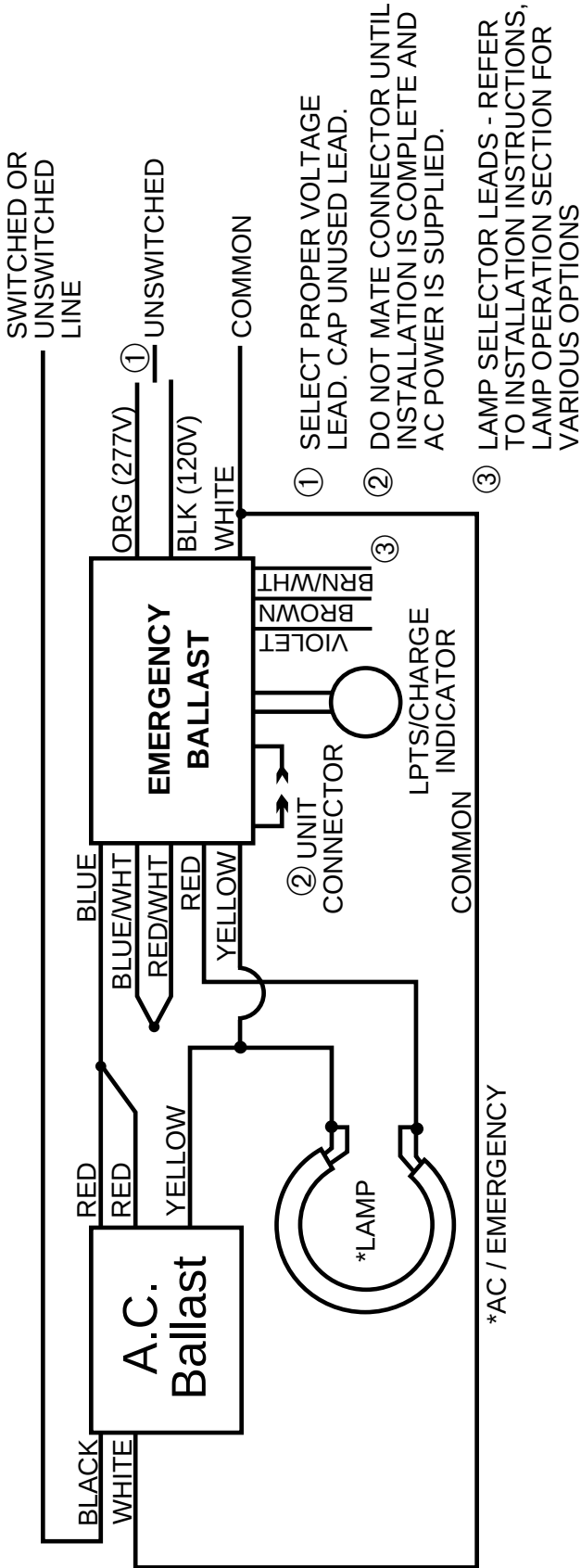
ENERGY SAVINGS

ES-2/1-CFQ-26-UNV-C or D

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY
EM PACK

1LCRSB_160F

ONE LAMP CIRCLINE RAPID START BALLAST



FULLHAM

WH3

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY
EM PACK

Wiring Diagram:

- Wires:** BLACK, WHITE, BLUE, BLUE, RED, BLUE/WHT, RED/WHT, RED, YELLOW, ORG (277V), BLK (120V), WHITE.
- Components:** A.C. Ballast, Emergency Ballast, *LAMP, UNIT CONNECTOR, LPTS/CHARGE INDICATOR.
- Connections:**
 - BLACK and WHITE wires connect to the A.C. Ballast.
 - Two BLUE wires connect to the A.C. Ballast.
 - RED, BLUE/WHT, RED/WHT, and RED wires connect to the Emergency Ballast.
 - YELLOW wire connects to the Emergency Ballast.
 - ORG (277V) and BLK (120V) wires connect to the Emergency Ballast.
 - WHITE wire connects to the Emergency Ballast.
 - The Emergency Ballast connects to the UNIT CONNECTOR.
 - The UNIT CONNECTOR connects to the *LAMP.
 - The UNIT CONNECTOR connects to the LPTS/CHARGE INDICATOR.
 - The LPTS/CHARGE INDICATOR connects to the COMMON line.

Notes:

- SELECT PROPER VOLTAGE LEAD. CAP UNUSED LEAD.
- DO NOT MATE CONNECTOR UNTIL INSTALLATION IS COMPLETE AND AC POWER IS SUPPLIED.
- LAMP SELECTOR LEADS—REFER TO INSTALLATION INSTRUCTIONS, LAMPS OPERATION SECTION FOR VARIOUS OPTIONS

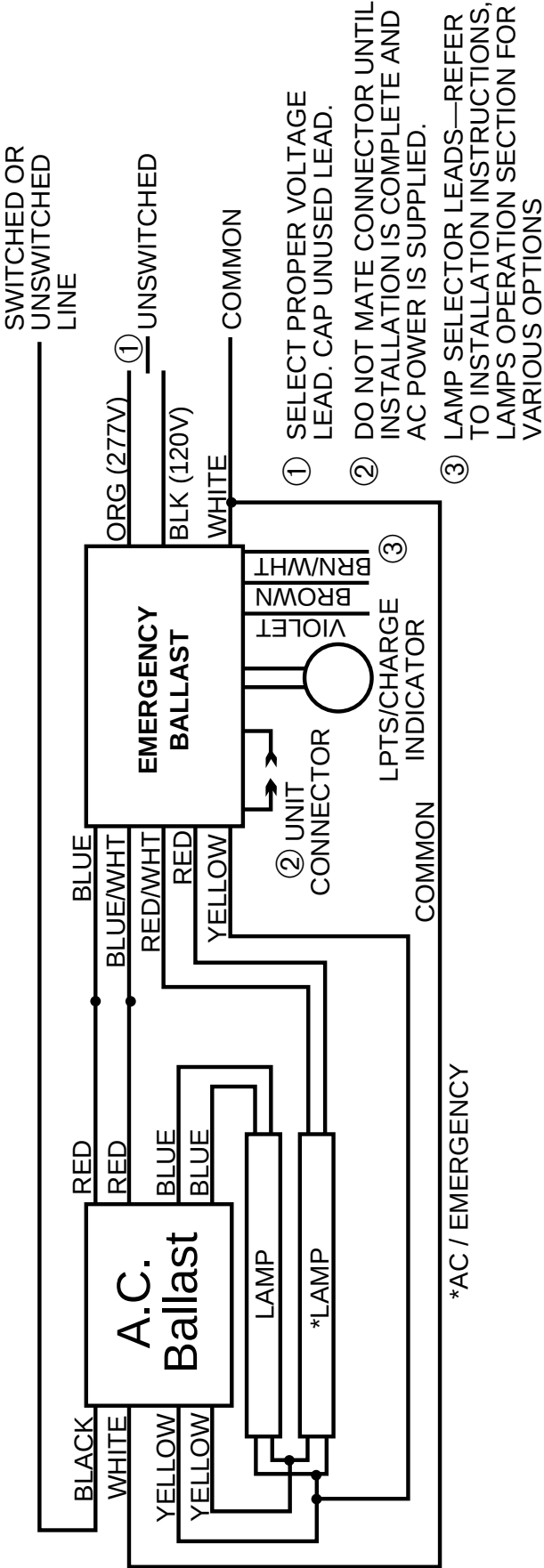
Legend:

- SWITCHED OR UNSWITCHED LINE
- UNSWITCHED
- COMMON

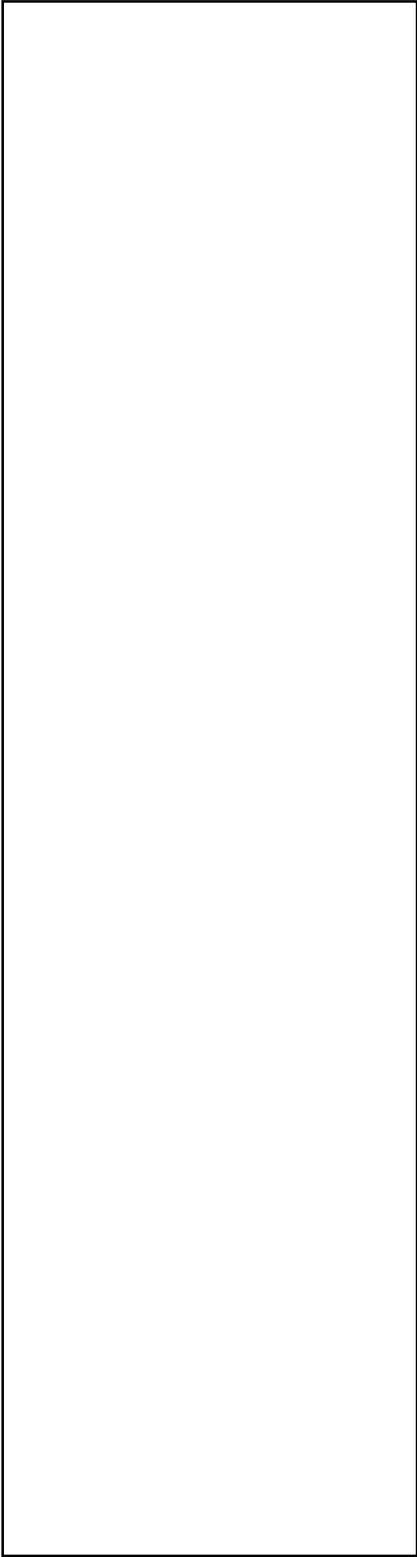
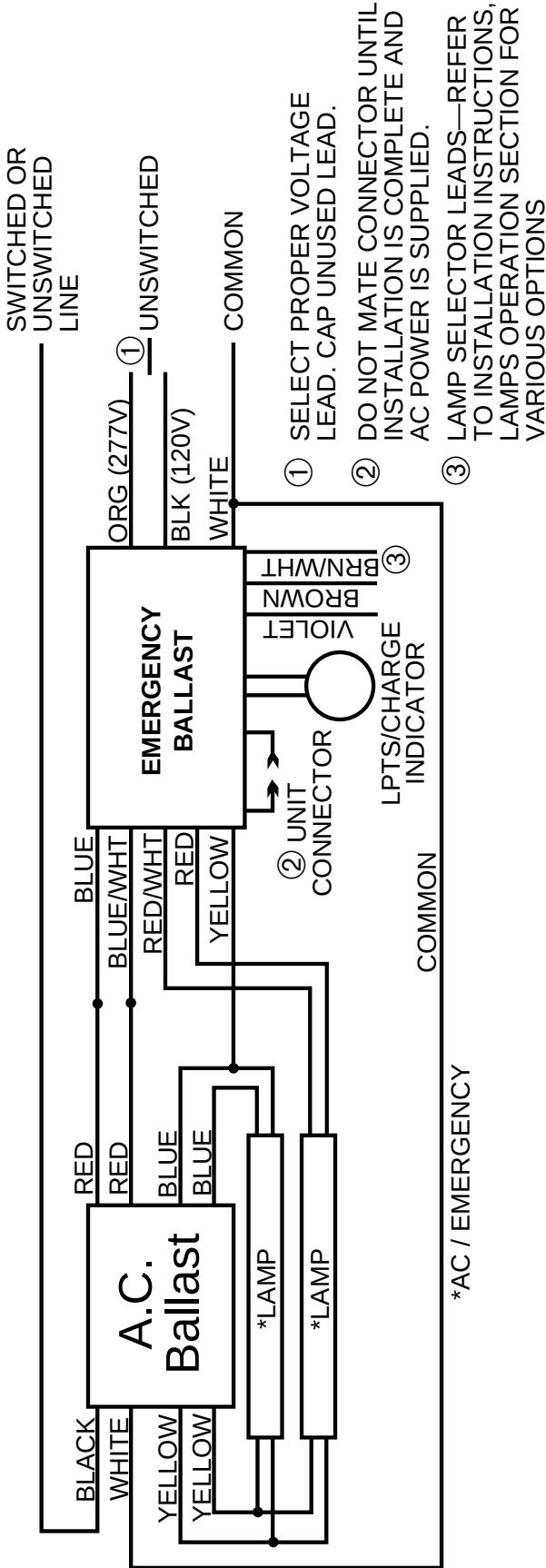
***AC / EMERGENCY**

***AC / EMERGENCY**

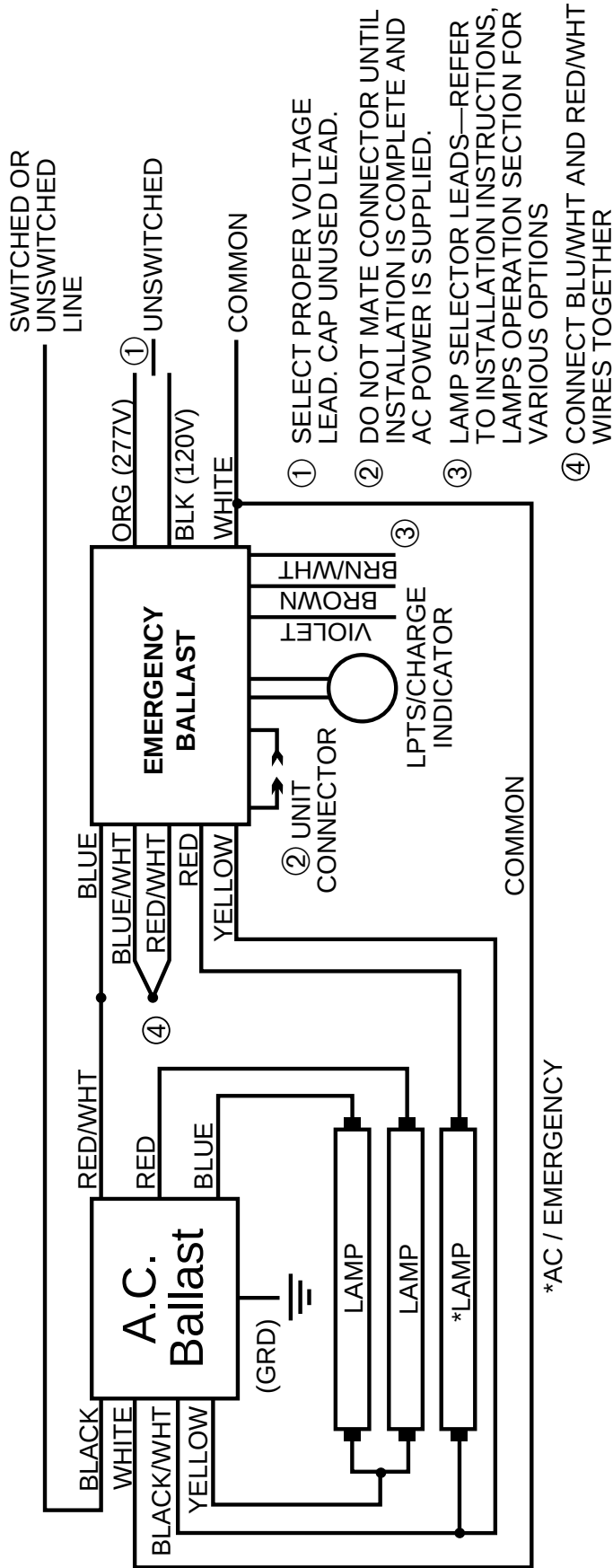
TWO LAMP RAPID START BALLAST



TWO LAMP RAPID START BALLAST WITH TWO LAMP EMERGENCY OPERATION



THREE LAMP INSTANT START BALLAST



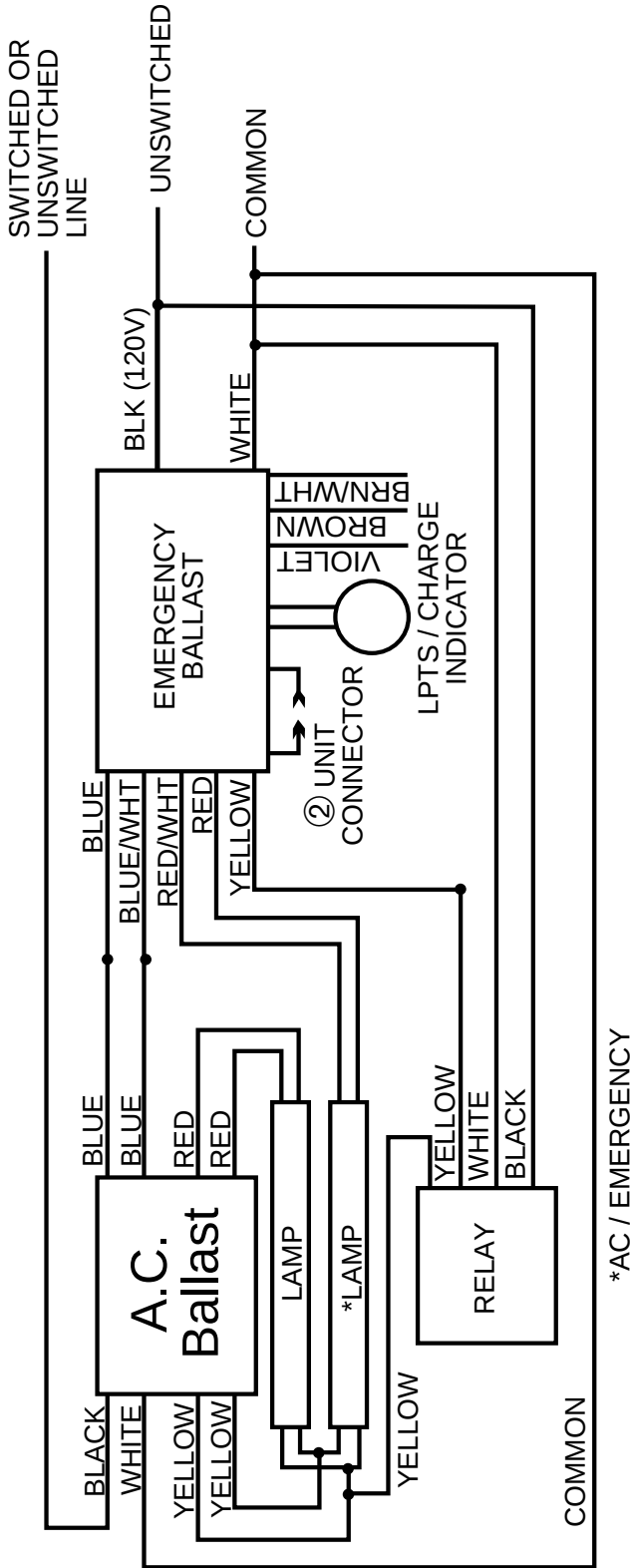
ENERGY SAVINGS

ES-4/3-T8-32/25/17-UNV-B-IS

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY
EM PACK

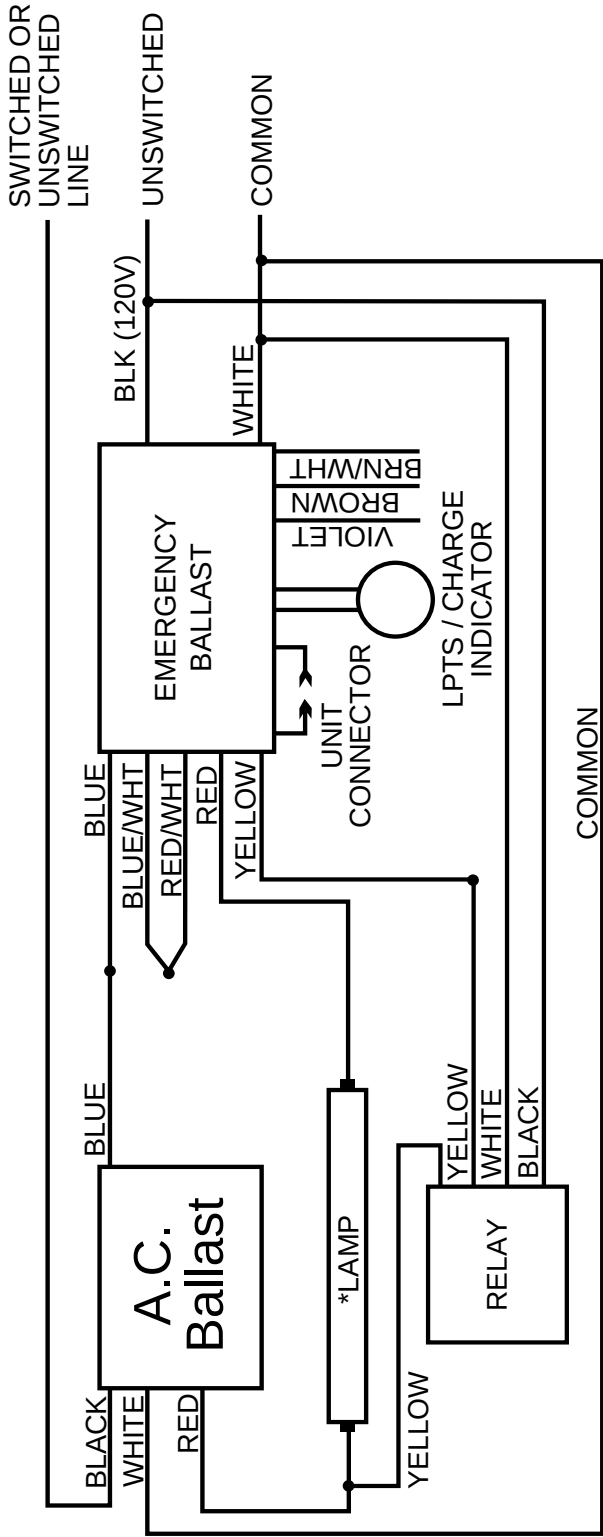
2LRSBWR_160

TWO LAMP RAPID START BALLAST WITH RELAY



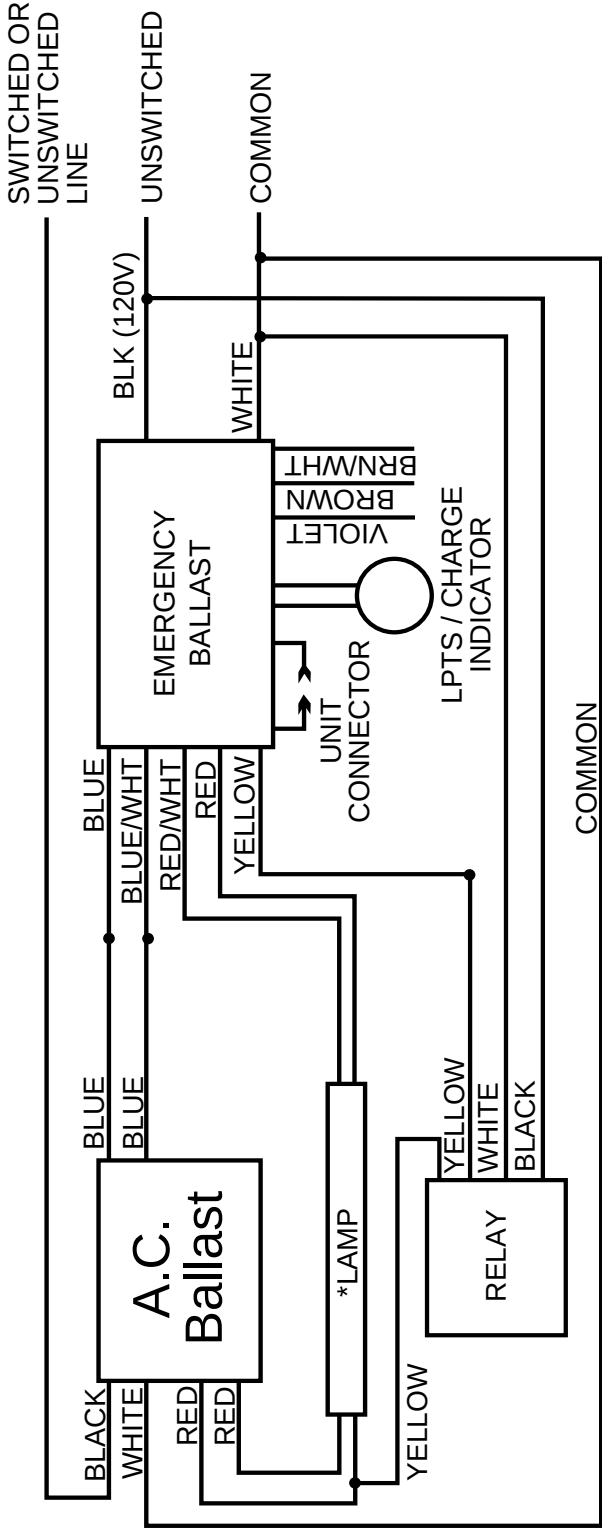
ADVANCE
RIC/VIC-2S32 REZ/VEZ-2S32 RZT/VZT-2S32*
LUTRON
ECO-T832-120/277-2* FDB-4827-120/277-2*
MAGNETEK
B232 R277 HP
MOTOROLA
M2-RH-T8-1LL-B-120/277 M2-RL-T8-1LL-A-120/277 M2-RN-T12-1LL-B-120/277 M2-RN-T8-10C-B-120/277 M2-RN-T8-1LL-D-120/277
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY EM PACK

ONE LAMP INSTANT START BALLAST WITH RELAY



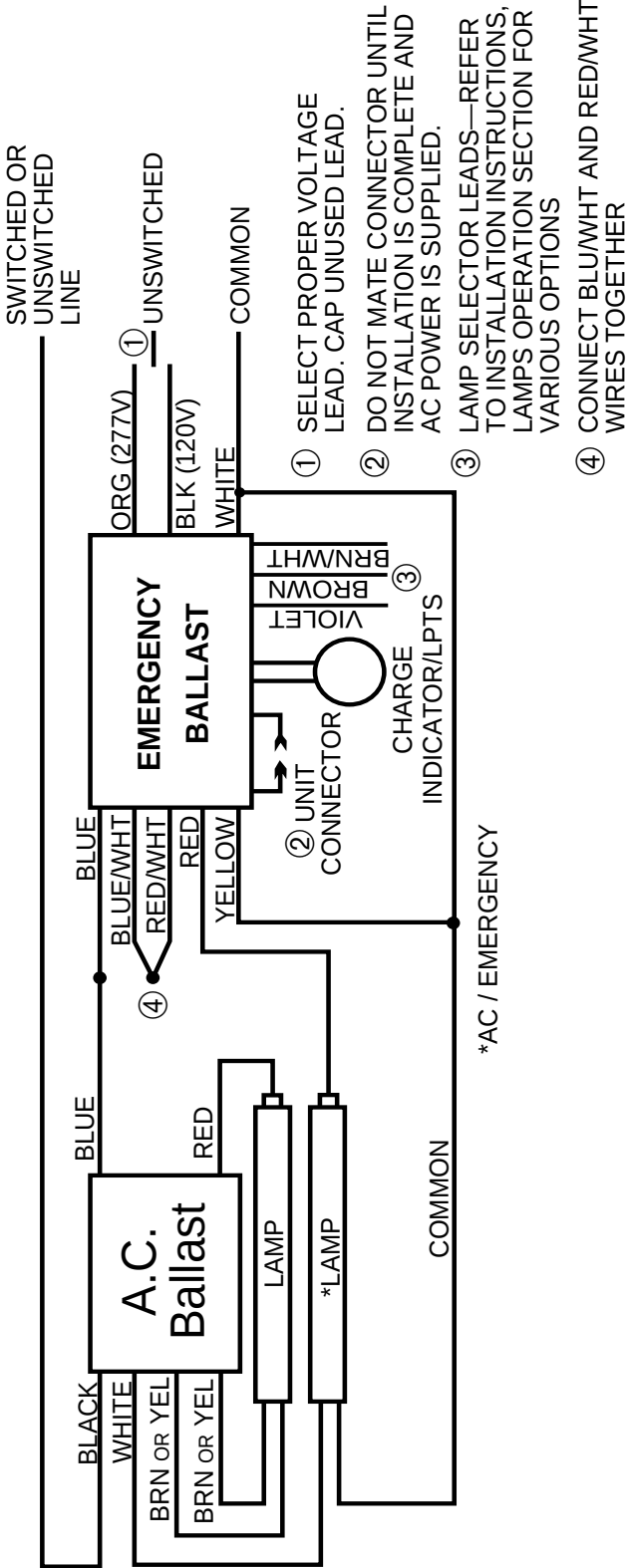
*AC / EMERGENCY

ONE LAMP RAPID START BALLAST WITH RELAY



*AC / EMERGENCY

TWO LAMP SERIES LEAD BALLAST

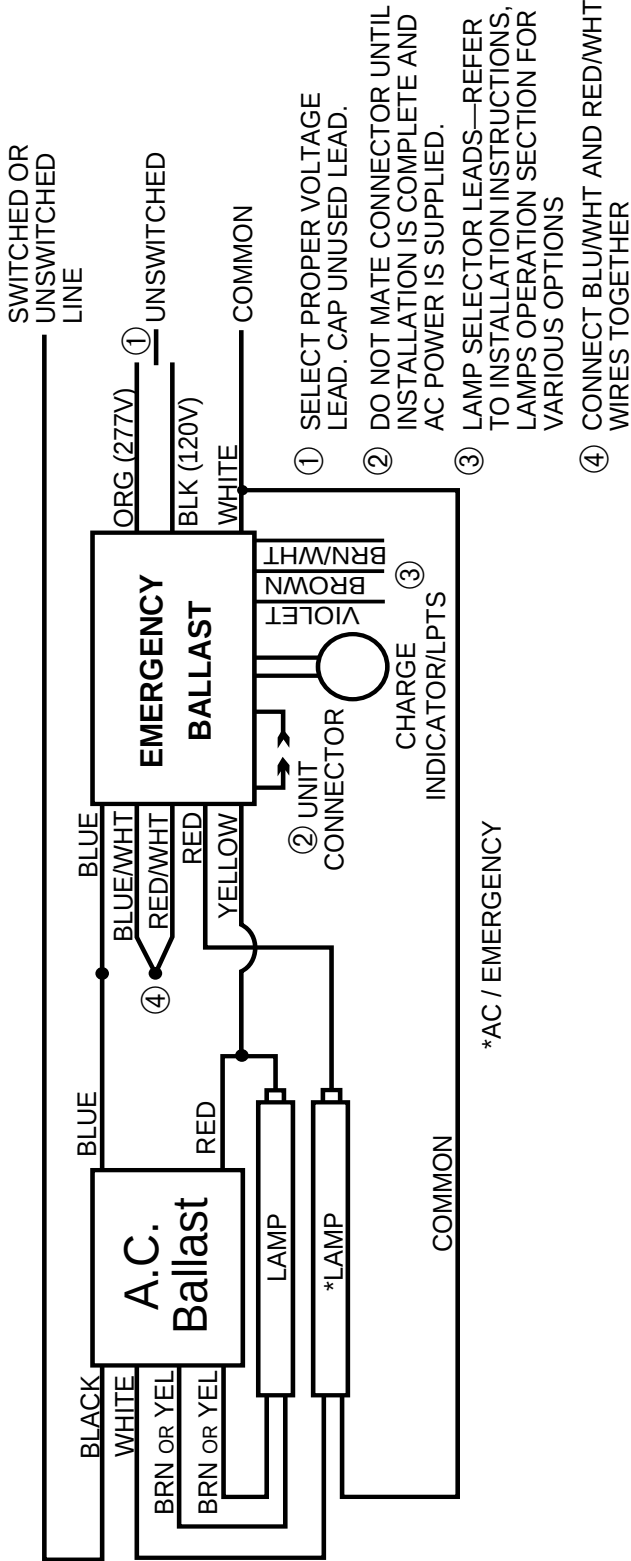


ADVANCE

V-2E75-S-TP
VSM-2E75S5-TP

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY
EM PACK

TWO LAMP SERIES LEAD BALLAST WITH TWO LAMP EMERGENCY OPERATION



ADVANCE

VSM-2E75S5-TP

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY EM PACK

The diagram illustrates the wiring for the Emergency LED Light Kit. It shows the following components and their connections:

- AC Ballast:** Receives power from the AC line (Black, White, Red). The Blue wire is connected to the Emergency Ballast.
- Emergency Ballast:** Receives power from the AC Ballast (Blue wire) and the Emergency line (Blue/White, Red/White, Red, Yellow). The White wire is connected to the Common line.
- Unit Connector:** Connects the Emergency Ballast to the Lamp. The Brown/White wire is connected to the Common line.
- Lamp:** Receives power from the Unit Connector (Brown/White wire) and the Emergency line (Blue/White, Red/White, Red, Yellow). The Yellow wire is connected to the Common line.
- Common Line:** Connects the White wire from the AC Ballast, the White wire from the Emergency Ballast, the Brown/White wire from the Unit Connector, and the Yellow wire from the Lamp.

Legend:

- ① SELECT PROPER VOLTAGE LEAD. CAP UNUSED LEAD.
- ② DO NOT MATE CONNECTOR UNTIL INSTALLATION IS COMPLETE AND AC POWER IS SUPPLIED.
- ③ LAMP SELECTOR LEADS - REFER TO INSTALLATION INSTRUCTIONS, LAMP OPERATION SECTION FOR VARIOUS OPTIONS
- ④ CONNECT BLUE/WHIT AND RED/WHIT WIRES TOGETHER

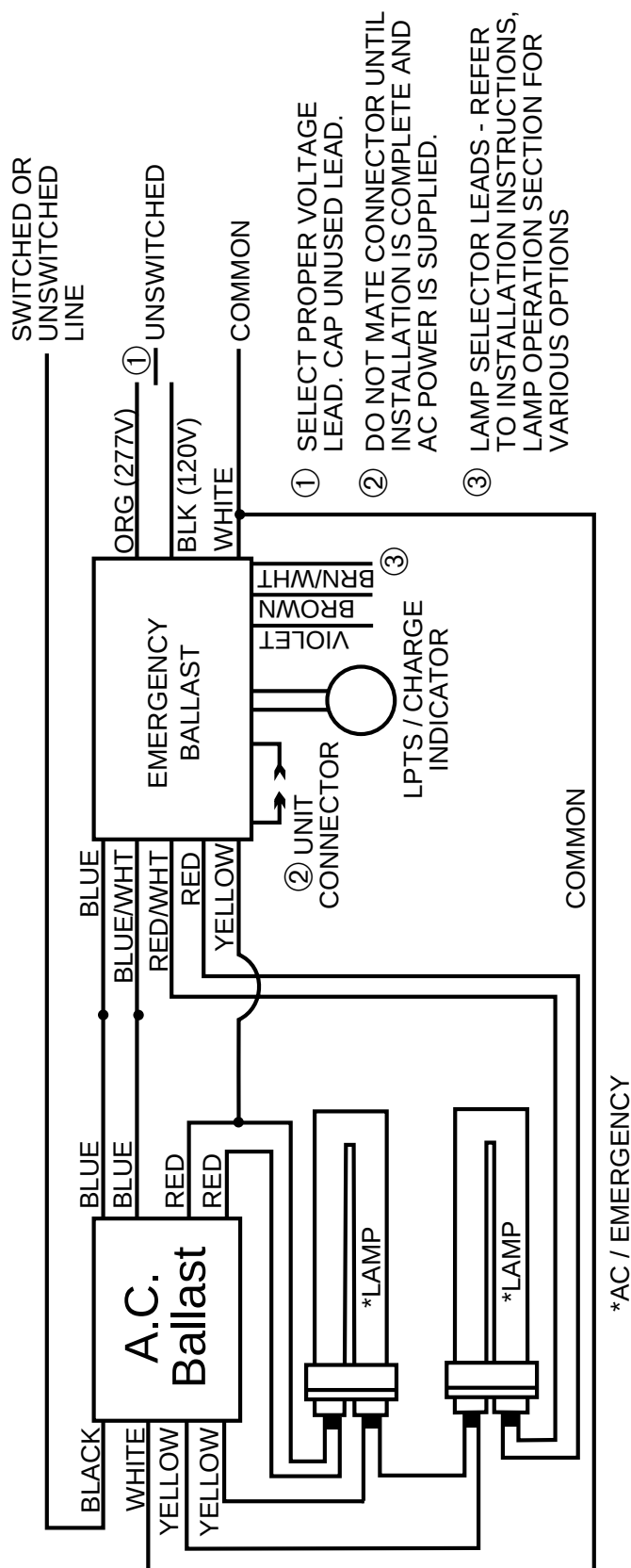
*AC / EMERGENCY

***AC / EMERGENCY**

M2-IL-T8-GP-D-120/277
M2-IN-T8-D-120/277
M2-IN-T8-1LL-D-120/277
M2-IN-T8-8FT-A-120/277
M2-IN-T8-8GP-A-120/277
M2-IN-T8-GP-D-120/277

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY
EM PACK

TWO COMPACT RAPID START BALLAST TWO LAMP OPERATION

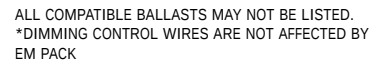


FOR 1 LAMP OPERATION REFER TO: **V62**

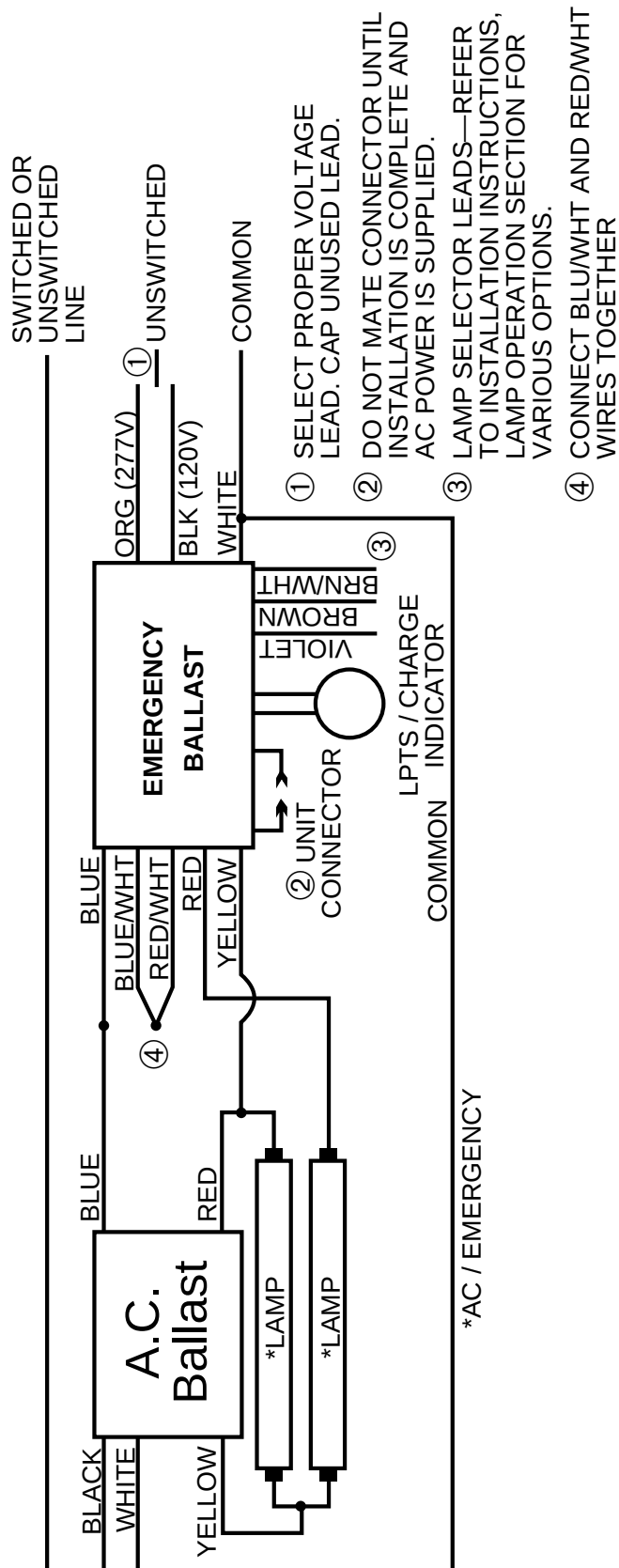
ANTRON/ACE
CSD UV42PS

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY
FM PACK

2LIBESI_160



TWO LAMP INSTANT START BALLAST TWO LAMP OPERATION

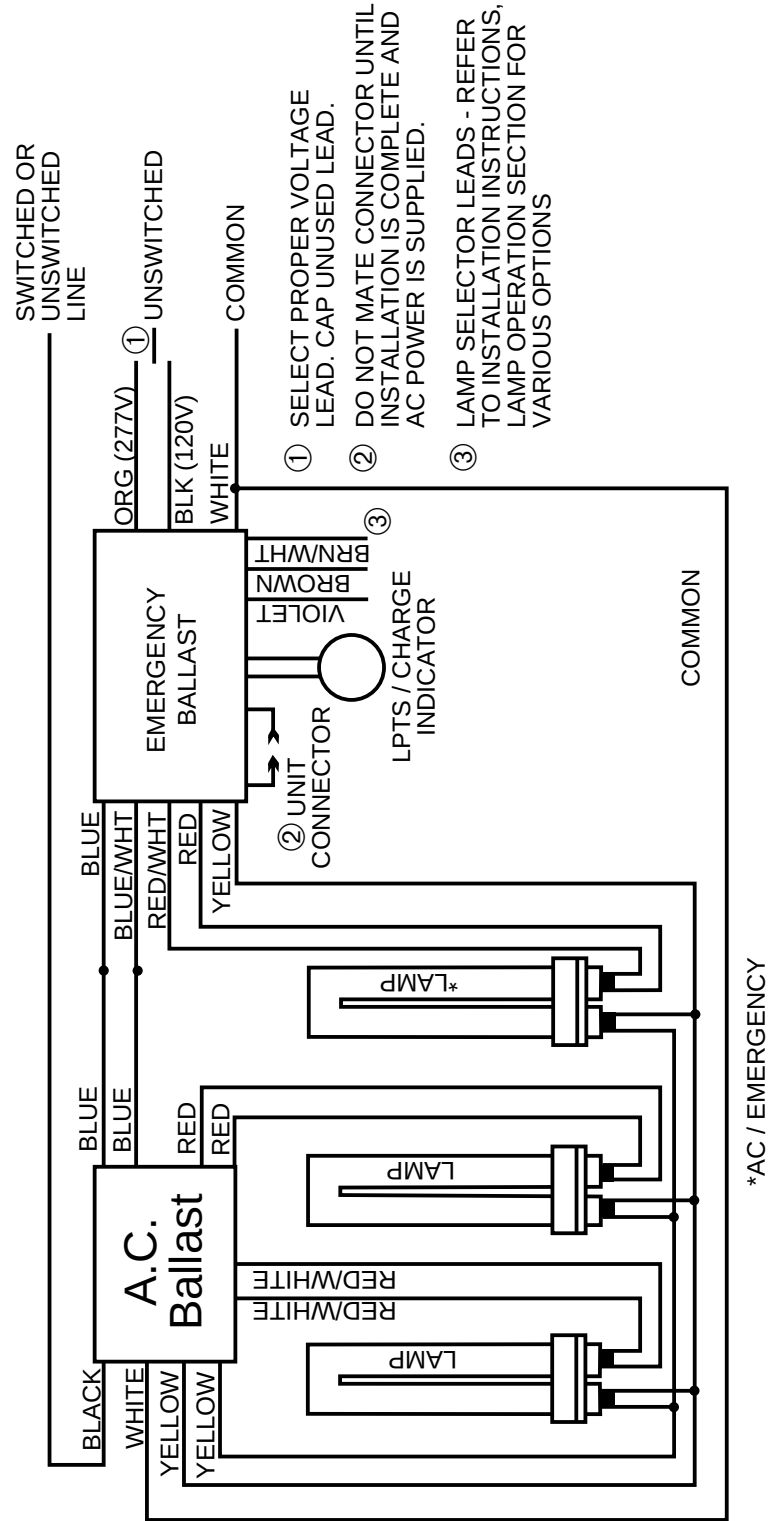


ES-2/1-T8-32/25/17/15-UNV-A-IS

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY
EM PACK

3BXLRSB_160

THREE BIAx RAPID START BALLAST

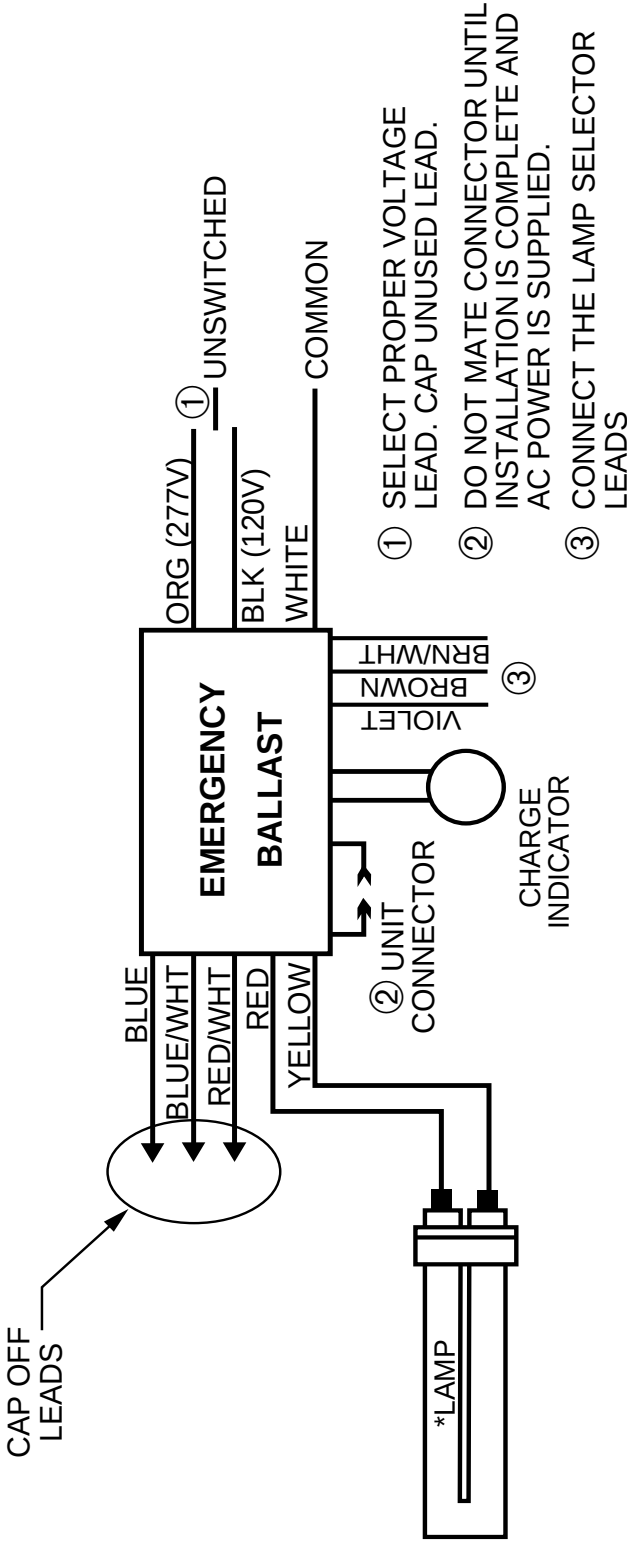


MAGNETEK

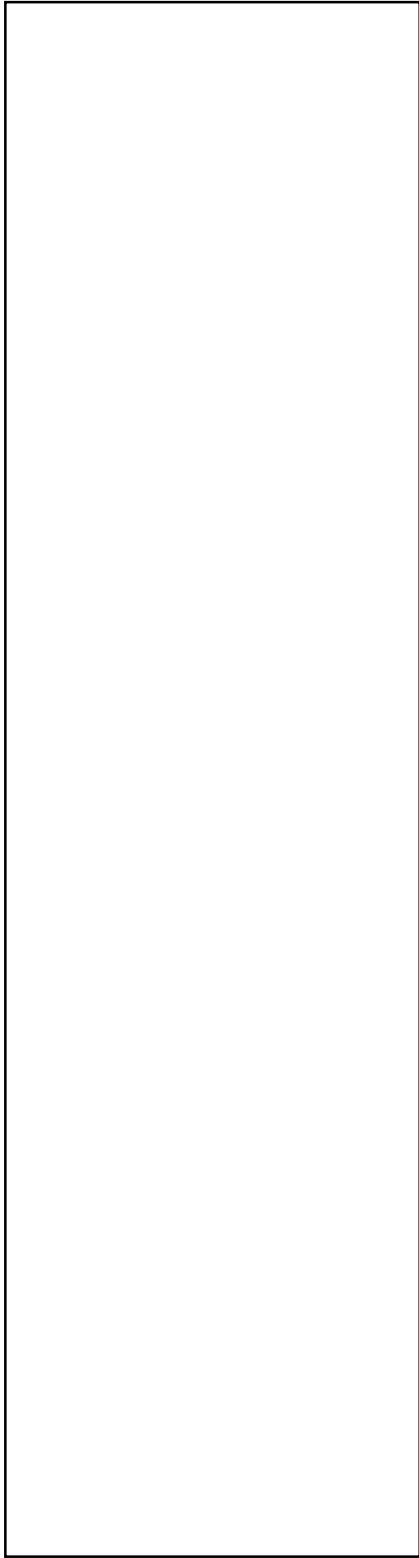
B340-R120 HP
B340-R277 HP

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY EM PACK

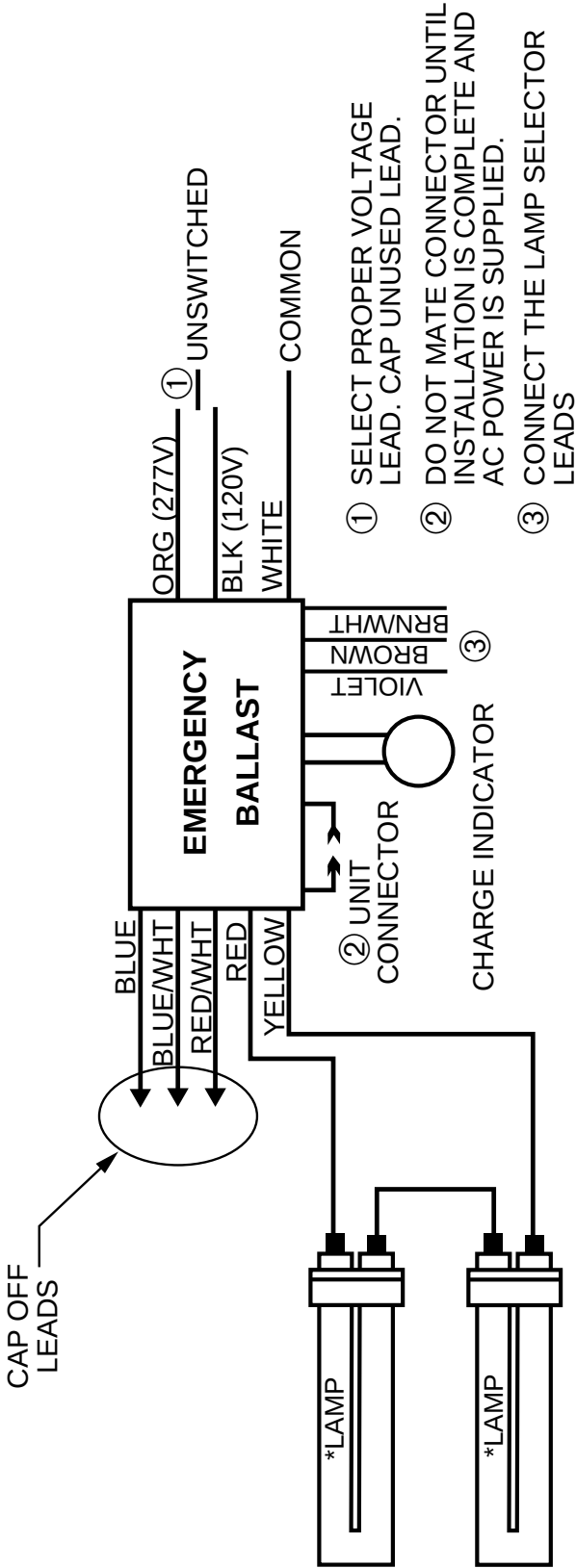
ONE COMPACT LAMP EMERGENCY ONLY



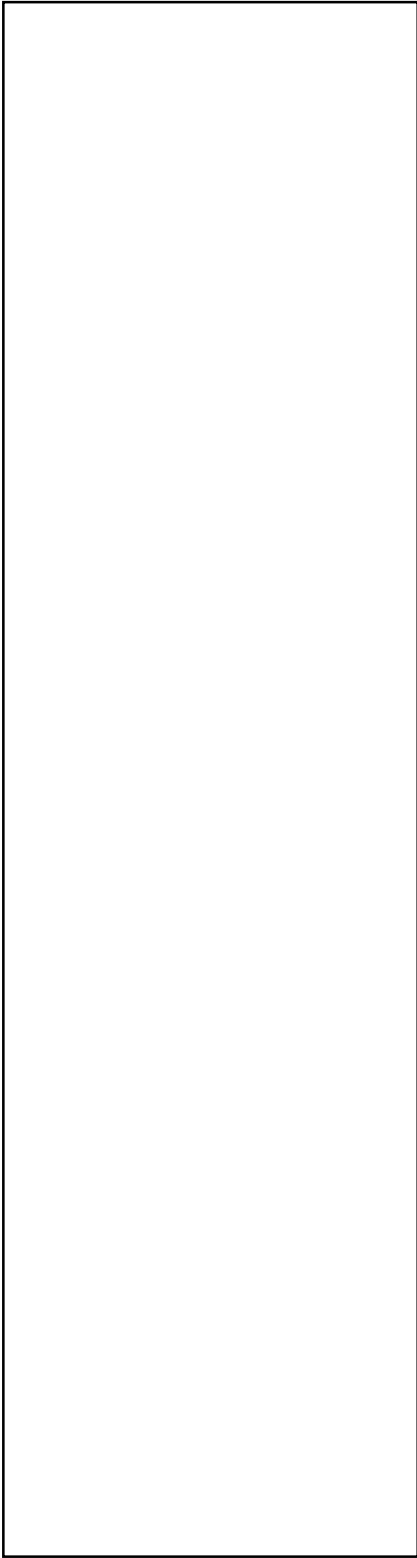
*AC / EMERGENCY



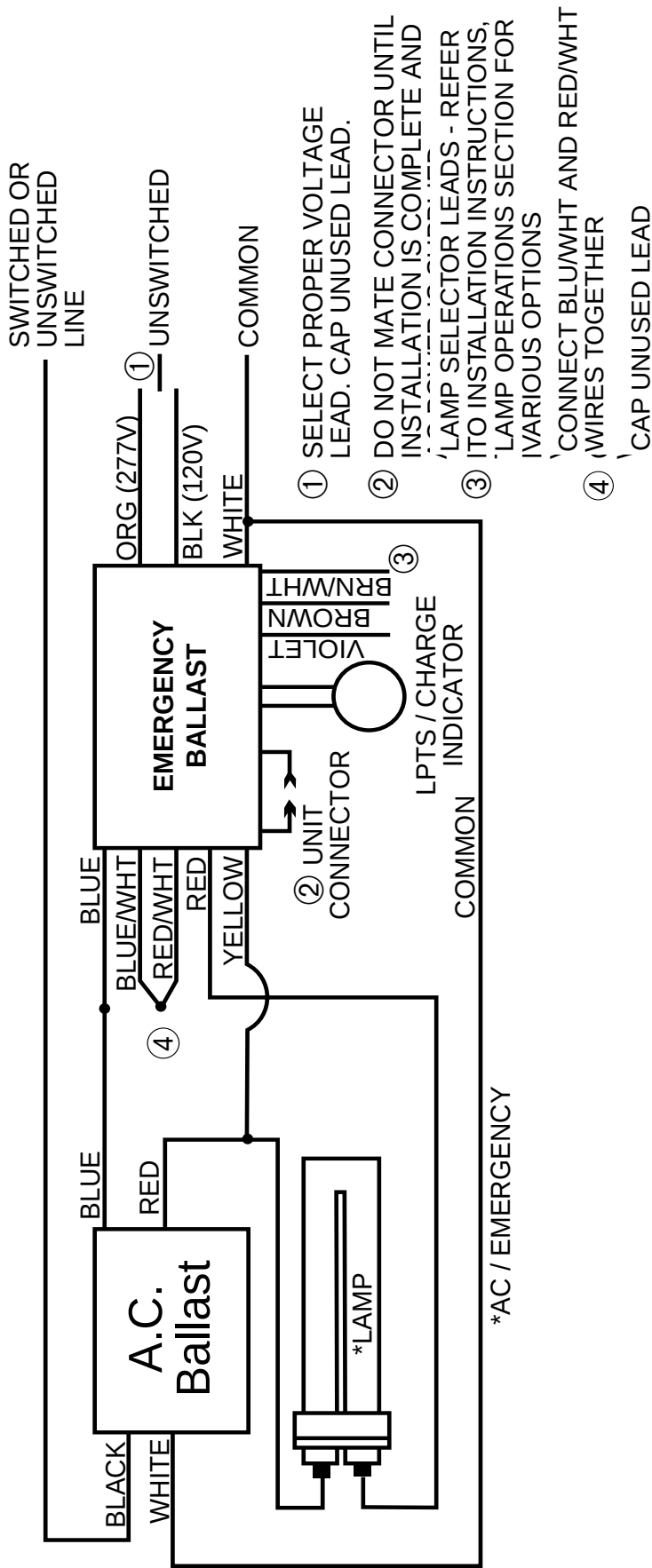
TWO COMPACT LAMP EMERGENCY ONLY



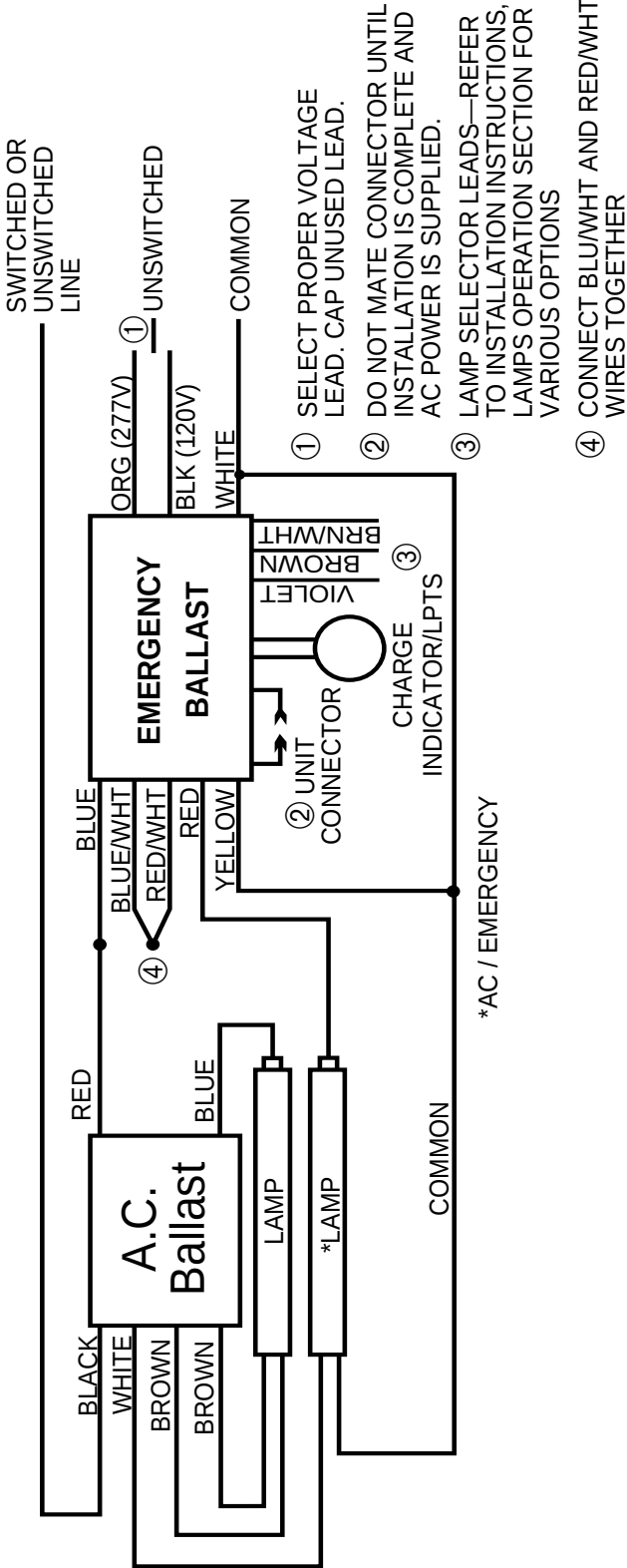
*AC / EMERGENCY



ONE LAMP INSTANT START BIAx



TWO LAMP SERIES LEAD BALLAST

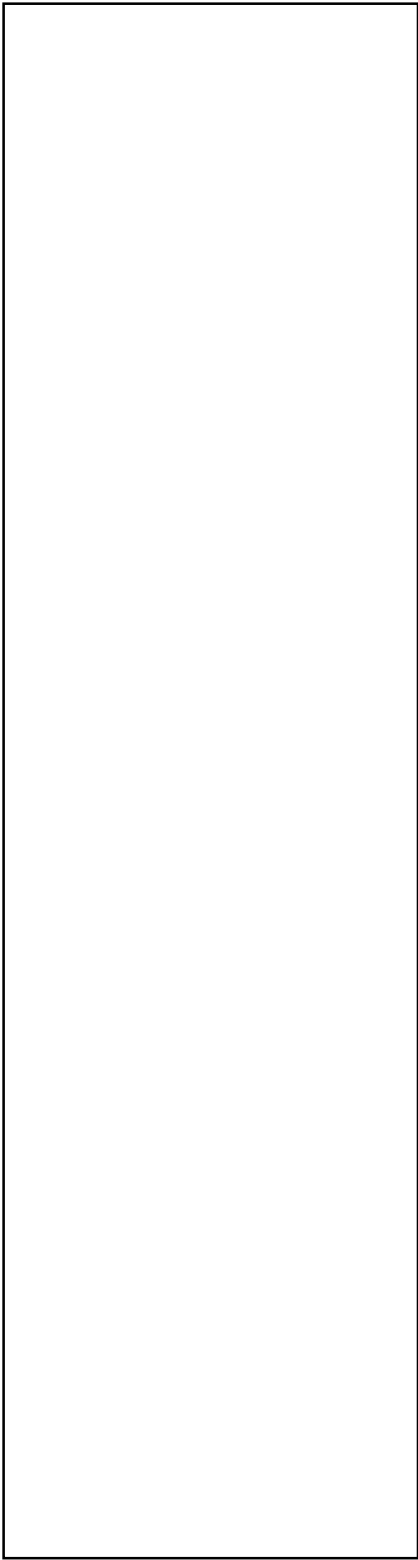
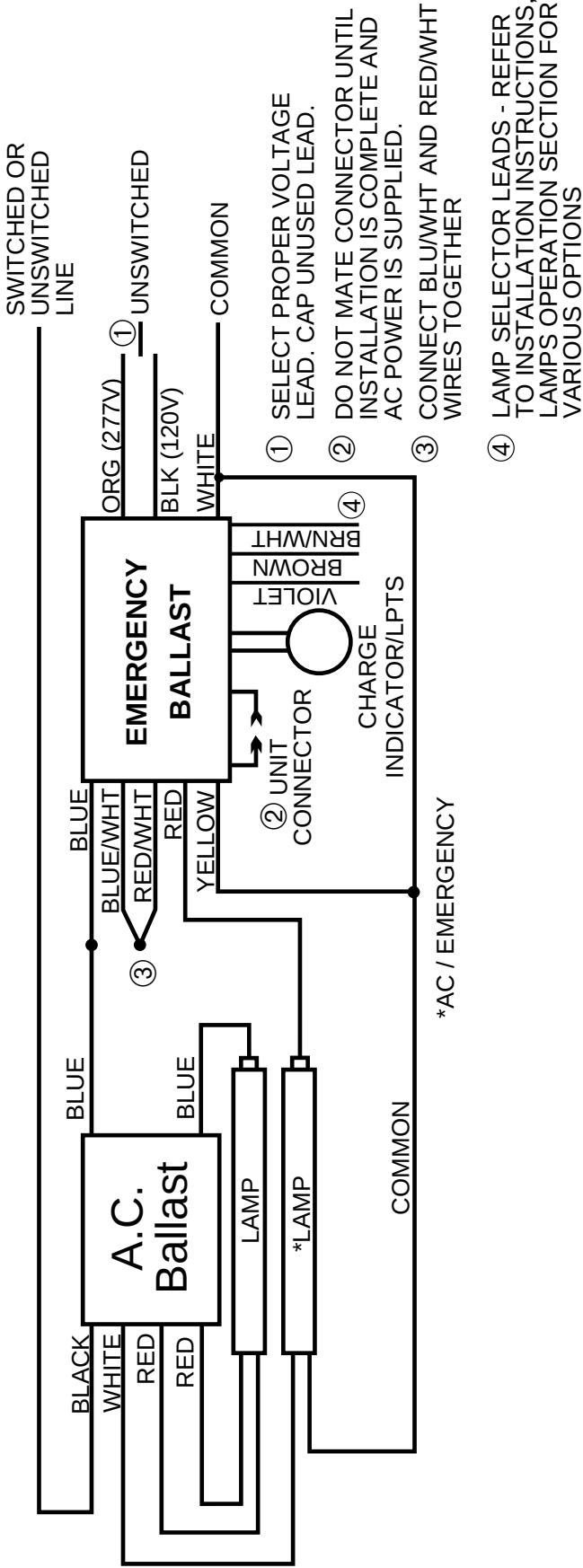


MAGNETEK

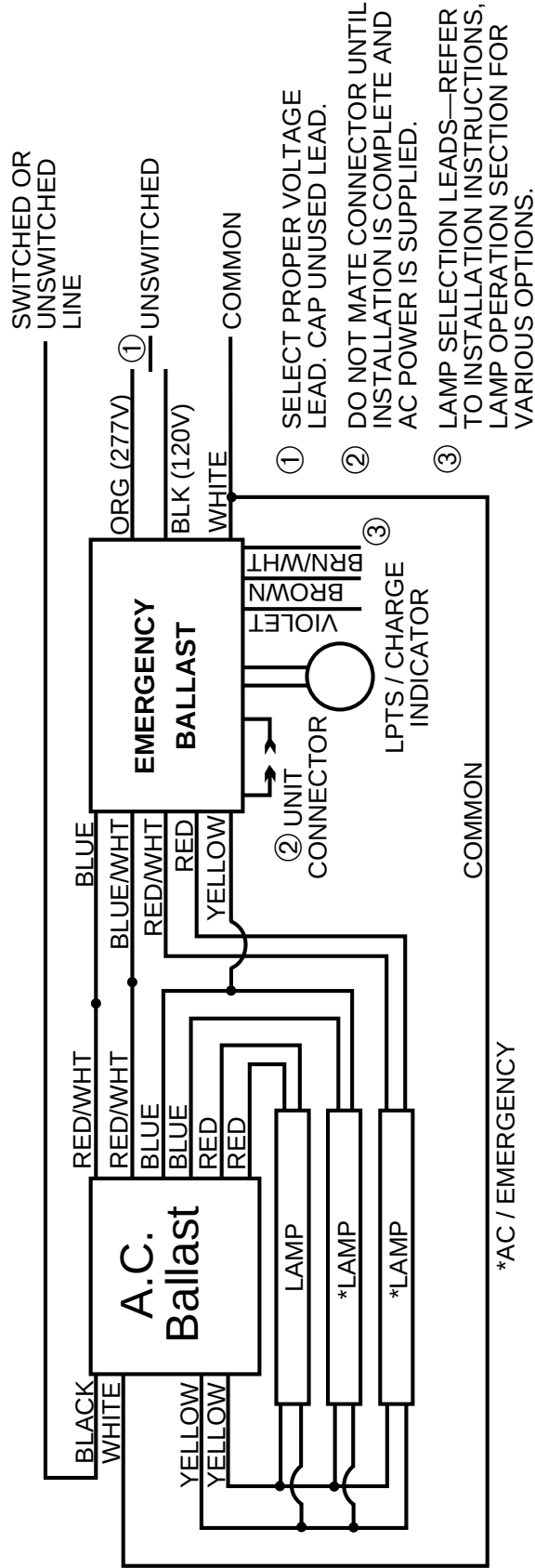
827-SLH-TC-P

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY EM PACK

TWO LAMP SERIES LEAD BALLAST



THREE LAMP RAPID START BALLAST WITH TWO LAMP OPERATION



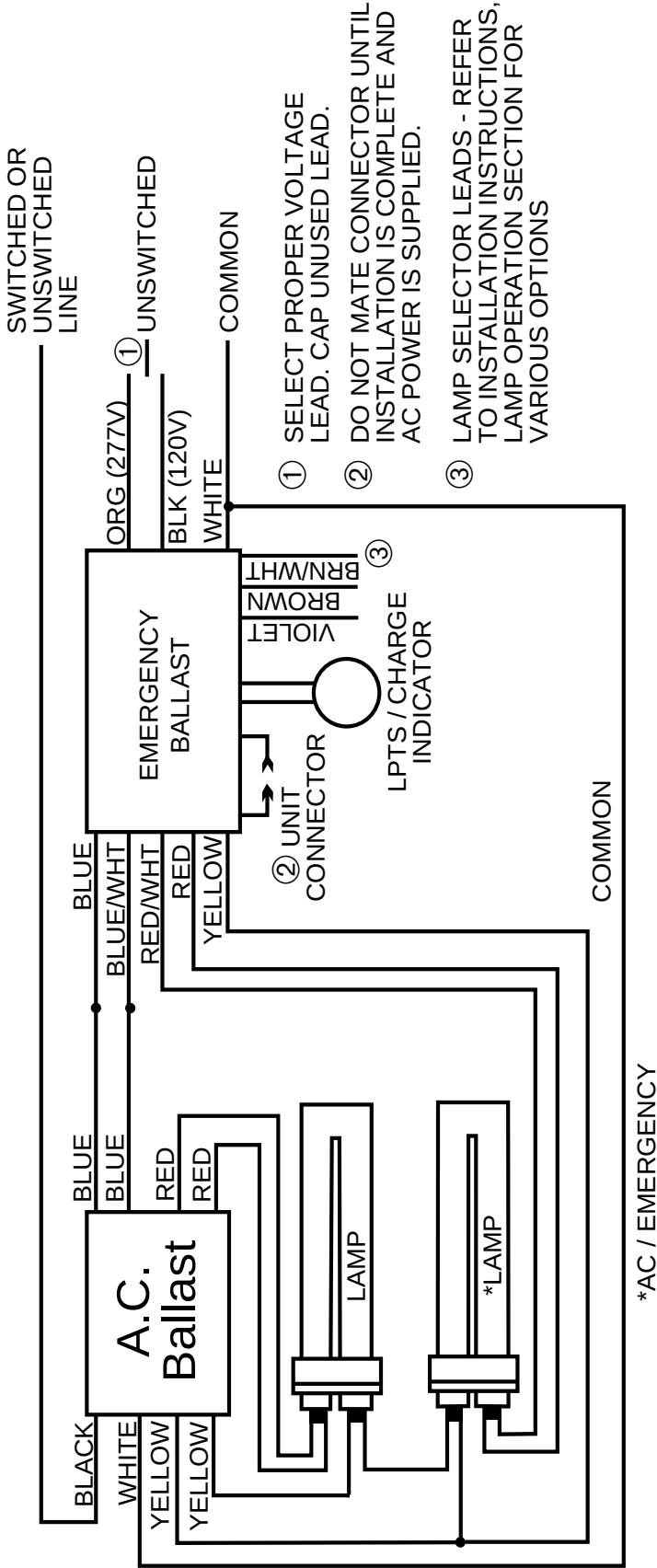
MAGNETEK

B332-R277HP
B332-R120HP

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY
EM PACK

2BXLRSB_160

TWO COMPACT RAPID START BALLAST



FOR 2 LAMP OPERATION REFER TO: V52

ANTRON/ACE
CSD UV42PS

ALL COMPATIBLE BALLASTS MAY NOT BE LISTED.
*DIMMING CONTROL WIRES ARE NOT AFFECTED BY EM PACK