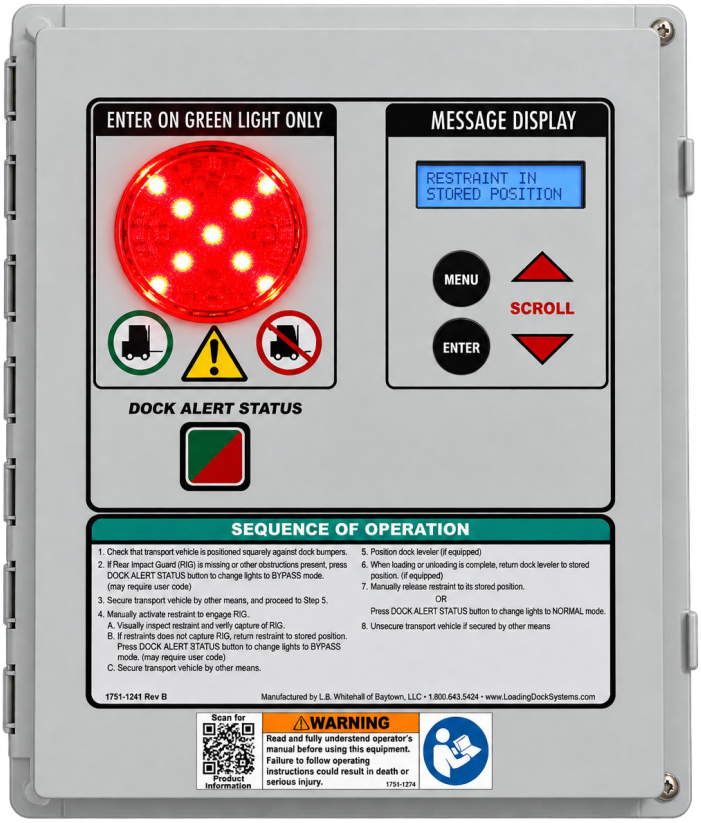
iDock®
Control System

OWNER'S/USER'S MANUAL



NOVA TECHNOLOGY™

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Manual No. MF5-003-CONTROL - October 2026

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Recognize Precautionary Information

Safety-Alert Symbol

The Safety-Alert Symbol is a graphic representation intended to convey a safety message without the use of words. When you see this symbol, be alert to the possibility of death or serious injury. Follow the instructions in the safety message panel.

DANGER

The use of the word DANGER signifies the presence of an extreme hazard or unsafe practice which will most likely result in death or severe injury.

WARNING

The use of the word WARNING signifies the presence of a serious hazard or unsafe practice which could result in death or serious injury.

CAUTION

The use of the word CAUTION signifies possible hazard or unsafe practice which could result in minor or moderate injury.

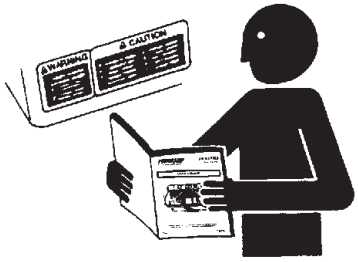
NOTICE

The use of the word NOTICE indicates information considered important, but not hazard-related, to prevent machine or property damage.

SAFETY INSTRUCTIONS

Indicates a type of safety sign, or separate panel on a safety sign, where safety-related instructions or procedures are described.

General Operational Precautions



Read and understand the Owner's/User's Manual and become thoroughly familiar with the equipment and its controls before operating the equipment.

Never operate dock equipment while a safety device or guard is removed or disconnected.

Never remove DANGER, WARNING, or CAUTION signs, Placards or Decals on the equipment unless replacing them.

WARNING: This product can expose you to chemicals including lead, which are known to the State of California to cause cancer or birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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PRECAUTIONS

Operational Precautions

Learn the safe way to operate this equipment. Read and understand the manufacturer's instructions. If you have any questions, ask your supervisor.

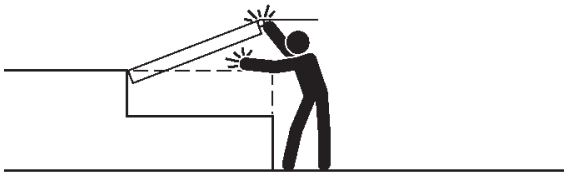
DANGER



Stay clear of dock leveling device when transport vehicle is entering or leaving area.



Do not move or use the dock leveling device if anyone is under or in front of it.

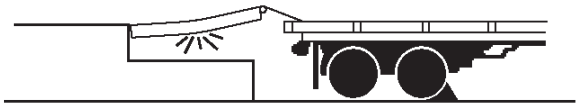


Keep hands and feet clear of pinch points. Avoid putting any part of your body near moving parts.

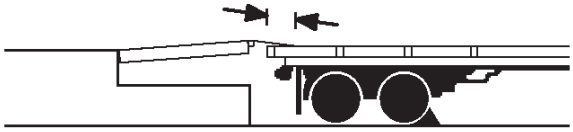
WARNING



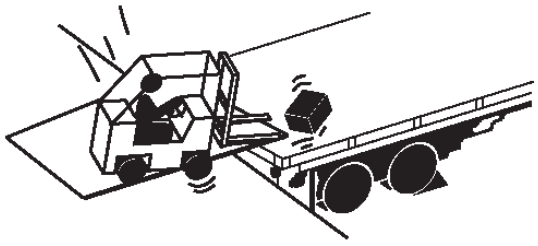
Chock/restrain all transport vehicles. Never remove the wheel chocks or release the restraining device until loading or unloading is finished, and transport driver has been given permission to drive away.



Do not use a broken or damaged dock leveling device or restraining device. Make sure proper service and maintenance procedures have been performed before using.



Make sure lip overlaps onto transport vehicle bed at least 4 in. (102 mm).

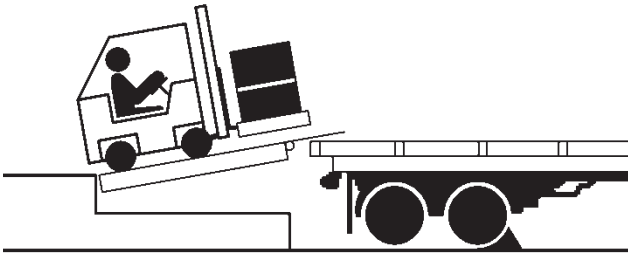


Keep a safe distance from both side edges.

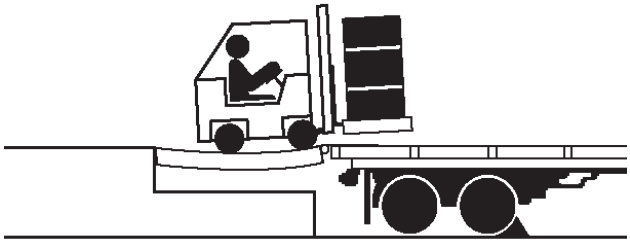
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Operational Precautions

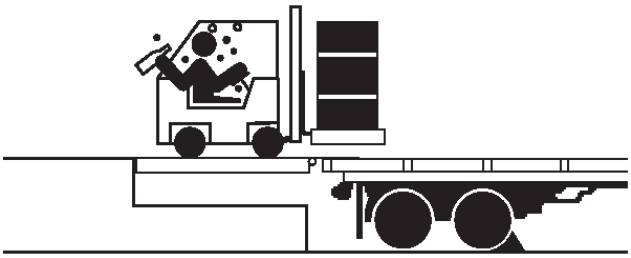
WARNING



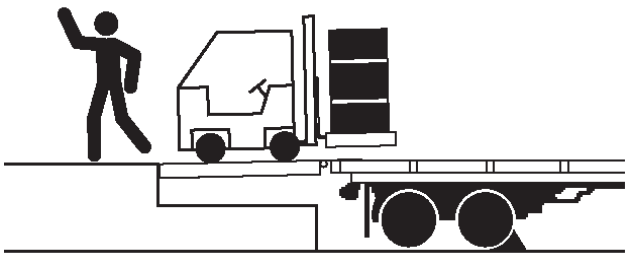
Do not use dock leveling device if transport vehicle is too high or too low.



Do not overload the dock leveling device.



Do not operate any equipment while under the influence of alcohol or drugs.



Do not leave equipment or material unattended on dock leveling device.

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OWNER'S/USER'S RESPONSIBILITIES

1) The manufacturer shall provide to the initial purchaser and make the following information readily available to the owners/users and their agents, all necessary information regarding Safety Information, Operation, Installation and Safety Precautions, Recommended Initial and Periodic Inspections Procedures, Planned Maintenance Schedule, Product Specifications, Troubleshooting Guide, Parts Break Down, Warranty Information, and Manufacturers Contact Information, as well as tables to identify the grade(slope) for all variations of length or configuration of the dock leveling device and information identifying the maximum uncontrolled drop encountered when sudden removal of support while in the working range of the equipment.

2) When selecting loading dock safety equipment, it is important to consider not only present requirements but also future plans and any possible adverse conditions, environmental factors or usage. The owners/users shall provide application information to the manufacturer to receive recommendations on appropriate equipment specifications and capacity.

3) The owner/user must see all nameplates, placards, decals, instructions and posted warnings are in place and legible and shall not be obscured from the view of the operator or maintenance personnel for whom such warnings are intended for. Contact manufacturer for any replacements.

4) Dock leveling devices may become hazardous if the manufacturer's instructions regarding modifications or adjustments are not followed. Modifications or alterations of dock leveling devices shall only be made with prior written approval from the original manufacturer. These changes shall be in conformance with all applicable provisions of the MH30.1 standard and shall also satisfy all safety recommendations of the original equipment manufacturer of the particular application.

5) Modifications or alterations of restraining devices shall be made only with prior written approval from the original manufacturer. These changes shall be in conformance with all applicable provisions of the MH30.3 standard and shall also satisfy all safety recommendations of the original equipment manufacturer of the particular application.

6) The owner/user should recognize the inherent dangers of the interface between the loading dock and the transport vehicle. The owner/ user should, therefore, train and instruct all operators in the safe operation and use of the loading dock equipment in accordance with manufacturer's recommendations and industry standards. Effective operator training should also focus on the owner's/user's company policies, operating conditions and the manufacturer's specific instructions provided with the dock leveling device. Maintaining, updating and retraining all operators on safe working habits and operation of the equipment, regardless of previous experience, should be done on a regular basis and should include an understanding and familiarity with all functions of the equipment. Owners/users shall actively maintain, update and retrain all operators on safe working habits and operations of the equipment.

7) An operator training program should consist of, but not necessarily be limited to, the following:

   a) Select the operator carefully. Consider the physical qualifications, job attitude and aptitude.
   b) Assure that the operator reads and fully understands the complete manufacturer's owners/users manual.
   c) Emphasize the impact of proper operation upon the operator, other personnel, material being handled, and equipment. Cite all rules and why they are formulated.
   d) Describe the basic fundamentals of the dock leveling device and components design as related to safety, e.g., mechanical limitation, stability, functionality, etc.
   e) Introduce the equipment. Show the control locations and demonstrate its functions. Explain how they work when used properly and maintained as well as problems when they are used improperly.
   f) Assure that the operator understands the capacity rating, nameplate data, placards and all precautionary information appearing on the dock leveling device.
   g) Supervise operator practice of equipment.
   h) Develop and administer written and practical performance tests. Evaluate progress during and at completion of the course.
   i) Administer periodic refresher courses. These may be condensed versions of the primary course and include on-the-job operator evaluation.

8) Loading dock safety equipment should never be used outside of its vertical working range, or outside the manufacturer's rated capacity. It shall also be compatible with the loading equipment and other conditions related to dock activity.

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Please consult the manufacturer if you have any questions as to the use, vertical working range or capacity of the equipment. Only properly trained and authorized personnel should operate the equipment.

9) It is recommended that the transport vehicle is positioned as close as practical to the dock leveling device and in contact with both bumpers. When an industrial vehicle is driven on or off a transport vehicle during loading and unloading operations, the transport vehicle parking brakes shall be applied and wheel chocks or a restraining device that provides equal or better protection of wheel chocks shall be engaged. Also, whenever possible, air-ride suspension systems should have the air exhausted prior to performing said loading and unloading operations.

10) When goods are transferred between the loading dock and a trailer resting on its support legs/ landing gear instead of a tractor fifth wheel or converter dolly, it is recommended that an adequate stabilizing device or devices shall be utilized at the front of the trailer.

11) In order to be entitled to the benefits of the standard product warranty, the dock safety equipment must have been properly installed, maintained and operated in accordance with all manufacturer's recommendations and/or specified design parameters and not otherwise have been subject to abuse, misuse, misapplication, acts of nature, overloading, unauthorized repair or modification, application in a corrosive environment or lack of maintenance. Periodic lubrication, adjustment and inspection in accordance with all manufacturers' recommendations are the sole responsibility of the owner/user.

12) Manufacturer's recommended maintenance and inspection of all dock leveling and vehicle restraining devices shall be performed in conformance with the following practices: A planned maintenance schedule program must be followed, only trained and authorized personnel shall be permitted to maintain, repair, adjust and inspect dock leveling devices, and only the use of original equipment manufacturer parts, manuals, maintenance instructions, labels, decals and placards or their equivalent. Written documentation of maintenance, replacement parts or damage should be kept. In the event of damage, notification to the manufacturer is required.

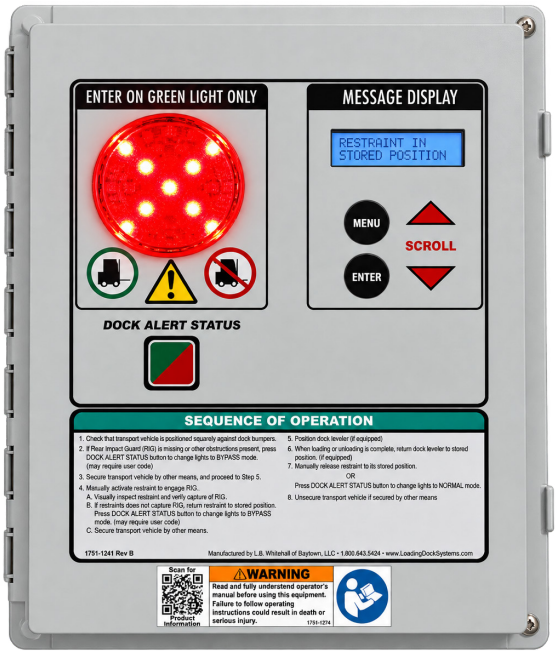
13) Loading dock devices that are structurally damaged or have experienced a sudden loss of support while under load, such as might occur when a transport vehicle is pulled out from under the dock leveling device, shall be removed from service, inspected by a manufacturer's authorized representative, and repaired or replaced as needed or recommended by the manufacturer before being placed back in service.

14) Restraining devices that are structurally damaged shall be removed from service, inspected by a manufacturer's authorized representative, and repaired or replaced as needed or recommended by the manufacturer before being placed back in service.

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INTRODUCTION

General Information



This manual provides current information on the iDock™ Control System. Due to ongoing product improvement, some parts may have changed, along with operation and troubleshooting methods. This manual describes these changes where applicable.

The iDock Control System is a technologically advanced push-button controller and light communication system used with Nova Technology International, LLC loading dock equipment.

iDock Control Systems feature a modular design. A 3-in-1 inside light assembly shows the state of the system and whether it is safe to enter the transport vehicle. A LCD display shows status of controls and explains fault conditions. Metal dome buttons provide positive control feedback.

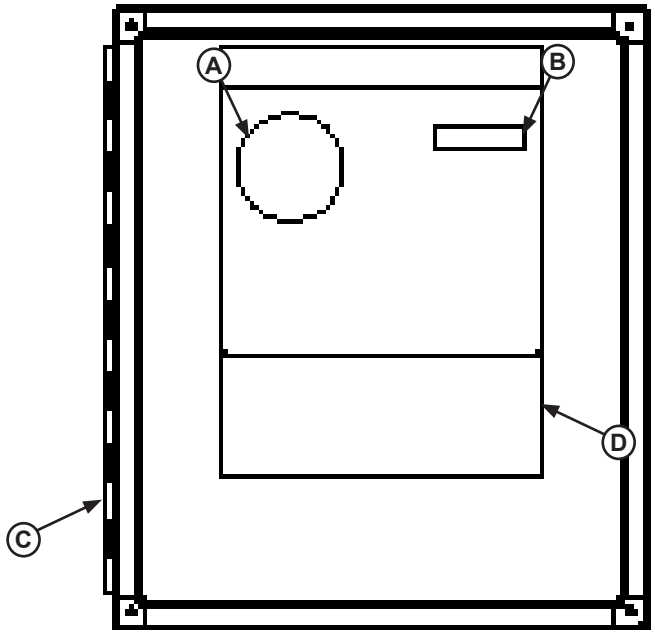
Each iDock Control System has been factory tested to ensure satisfactory operation.

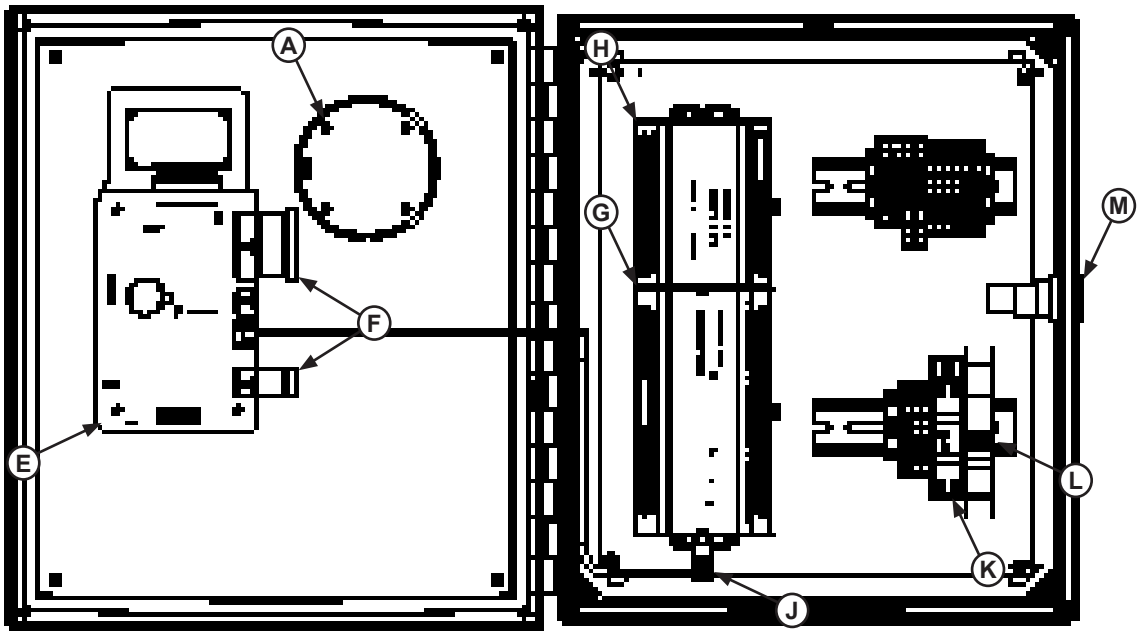
To illustrate which connections are to be made in the field at installation, electrical drawings are included with each order or by contacting Nova Technology International, LLC Technical Services at 800-236-7325.

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Component Identification

Inspect package and all components. Ensure enclosure, lenses, push button membranes, wiring and circuit boards are intact. Report any scratches, dents, damage or missing items immediately and note on the shipping Bill Of Lading (BOL).





A — Multi-Colored LED Light
B — Message Display
C — Enclosure*
D — Pushbutton Membrane*
E — Main Board Assembly
F — Ribbon Cables
G — Terminal Board*
H — Expansion Board*
J — RJ45 Cable
K — Power Supply*
L — Circuit Breaker
M — Alarm

**Appearance may vary depending on options.*

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INTRODUCTION

Definitions

Throughout this manual, many different button inputs and system functions of the iDock Control System are referenced. This section defines these inputs/ functions:

- **(A) DOCK ALERT STATUS BUTTON** - To change the status of the Dock Alert light communication system.

- **(G) SCROLL UP/DOWN BUTTONS** - To change the message on display.
  - To change highlighted digit value.
  - To change the selected sub-menu.

- **(H) MENU BUTTON** - To access the iDock Control menus.
  - Press to activate menu screen.
  - Press to exit to previous screen.

- **(J) ENTER BUTTON** - To select highlighted feature or digit on the Message Display (**M**).
  - To save any setting changes.

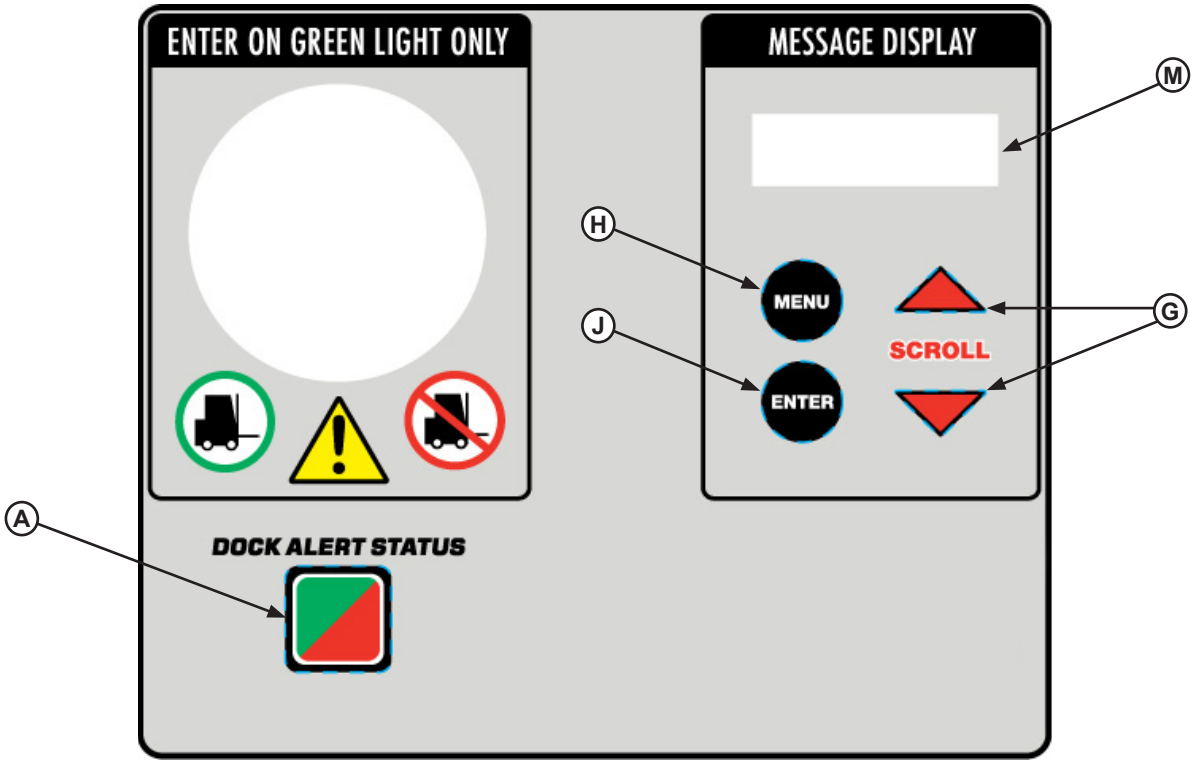
- **(M) MESSAGE DISPLAY** - During equipment operation, will show messages to assist the operator.
  - When menu is active, will show various settings, equipment info, and maintenance features.

- **Main Menu** - The menu that is accessed by pressing the MENU button (**H**). See page 18-19 for more information.

- **User Code** - Used to secure access to BYPASS mode. No code is default from factory. Owner/User is responsible to define 3-digit code if required; this code can be added or changed at any time. See page 14 for more information.

- **Maintenance Code** - Used to secure access to the MAINTENANCE menu. No code is default from factory. Owner/User is responsible to define 8-digit code if required; this code can be added or changed at any time. See page 14 for more information.

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INSTALLATION

Installation Precautions

DANGER

Make sure that the power source has been locked out and tagged according to OSHA regulations and approved local electrical codes.

WARNING

A hard hat or other applicable head protection should always be worn when working under or around a dock leveler.

Always stand clear of platform lip when working in front of the dock leveler.

CAUTION

All electrical work — including the installation of the disconnect panel, control panel, and final connections to the pit junction box — must be performed by a certified electrician and conform to all local and applicable national codes.

CAUTION

Overhead door operators capable of remote operation can bypass iDock controller door interlock(s) when operated remotely! Always utilize the dry contact interlock terminals in the controller to provide the requisite signal and prevent remote door operation until the equipment is not in use.

NOTICE

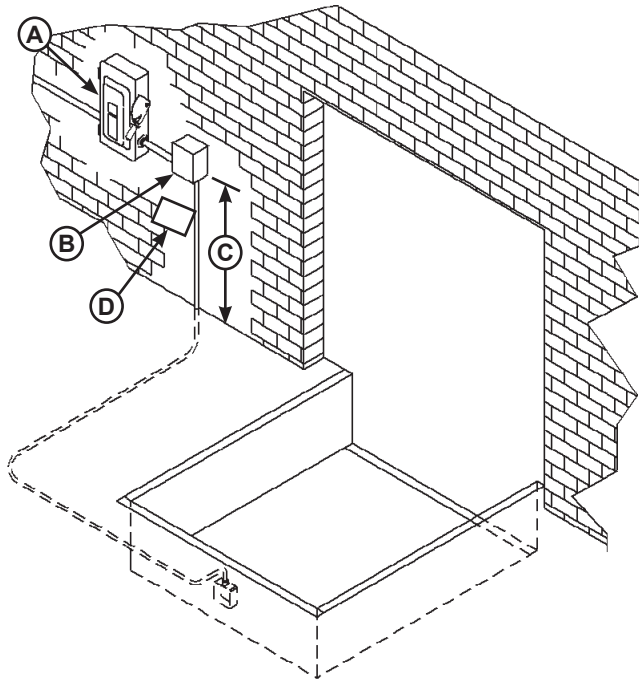
DO NOT connect any dock equipment electrical wiring or ground connections until all welding has been completed.

Failure to follow these instructions may damage the motor, hydraulics, wiring, and/or control panel.

NOTICE

Where indicated, all components must be connected to a SAFETY EARTH GROUND that conforms to the 1999 National Electrical Code Section 250-50 section (a) or section (c) for a grounding electrode system.

Mounting Control Panel



A— Disconnect Panel (provided by others)
B— Control Panel
C— Distance, 48 in. (1219 mm)
D— Placard

1. Mount the control panel (**B**) so bottom of control panel-to-dock floor distance is 48 in. (1219 mm, **C**).

2. Install electrical disconnect panel (**A**) if not already installed (provided by others). It is recommended to locate disconnect panel adjacent to control panel (**B**).

3. Field wiring should be minimum of 18 gauge wire using waterproof connections.

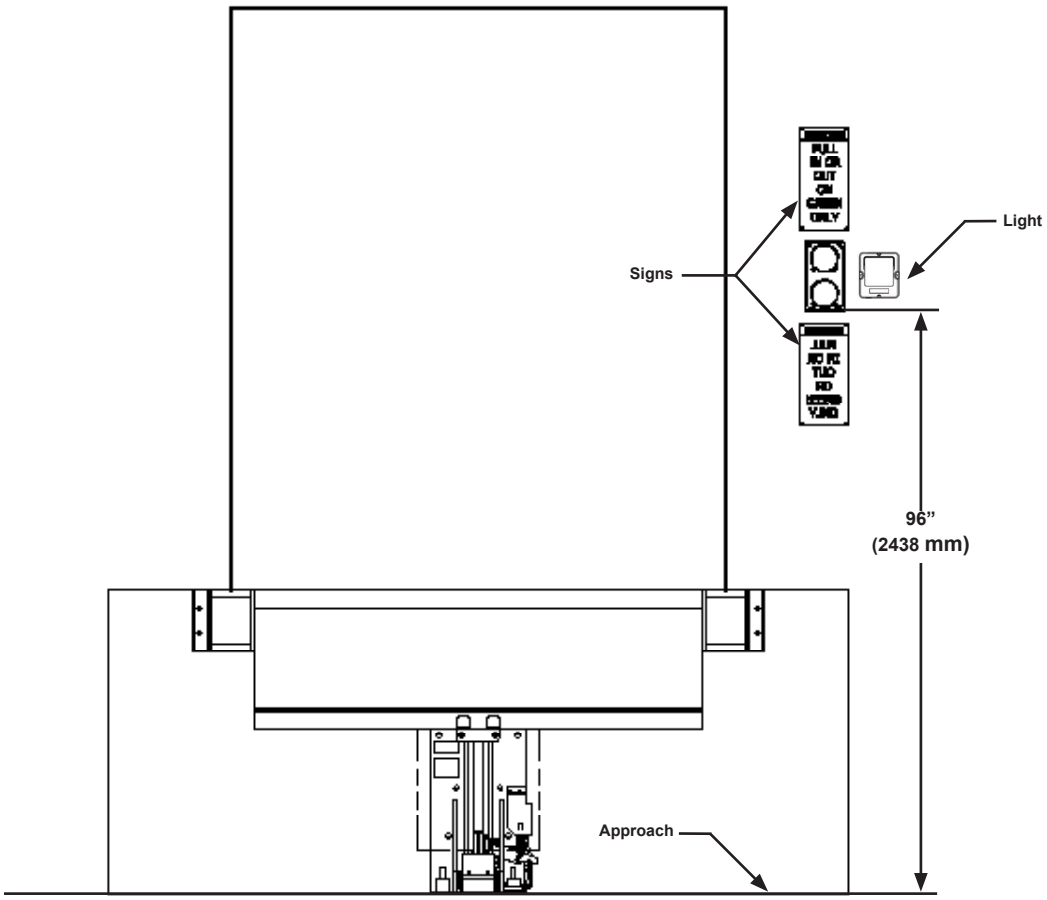
4. Connect the control wiring to the field wires in the dock equipment junction boxes. Refer to the electrical diagrams supplied with the control box.

Note: When installing electrical controls in a temperature-controlled environment, the installer must determine an appropriate means to isolate/prevent thermal and vapor transfer through electrical conduit where conduit routing crosses temperature zones. Nova Technology International, LLC is not responsible for any damage due to moisture collecting inside the control panel caused by improper isolation/prevention of thermal and vapor transfer through the conduit. Refer to Tech Service Bulletin 19-053 for more information.

5. Install placard (**D**). Make sure placard is in plain view of dock leveler and/or vehicle restraint operations. Suggested placement of placard is near control box attached to electrical conduit by using nylon cable tie.

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Install Outside Light Assembly and Signs



Note: Installation measurements shown are recommended based on typical dock conditions. Some installations may require alternate placement.

1. Mount the Outside Light Assembly so bottom of outside light-to-drive distance is 96 in. (2438 mm).

2. Connect the wiring for the Outside Light Assembly.

3. Install “CAUTION: PULL IN OR OUT ON GREEN ONLY” signs on outside of building above and below Outside Light Assembly.

4. Install “CAUTION: ENTER ON GREEN ONLY” sign inside building near control box.

5. Proceed with System Configuration (page 12).

NOTICE

The iDock Control System is designed to function with 12v DC outside lights only.

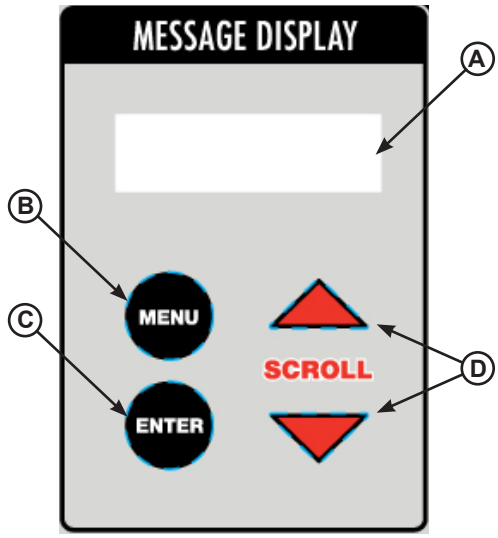
Using 115v AC or other non-12v DC outside lights and wiring will cause the iDock Control System to enter a fault state and equipment will not function.

If 12v DC outside lights are already present and functioning, they can be re-used, but new wiring should always be run to ensure correct operation.

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INSTALLATION

System Configuration



System Control Buttons/Displays

A - Message Display
B - MENU button
C - ENTER button
D - SCROLL UP/DOWN buttons



Nova Technology International, LLC Serial Number Decal

E - Serial Number

Enter New Equipment Information

1. Turn system power ON with external disconnect:

SYSTEMS Boot v0.0.0
SYSTEMS MAIN v0.0.0
SYSTEMS BLE v0

(alternating messages)

Note: (Versions referenced above will vary based on manufacturing date.

2. Configure the iDock Control System by using the SCROLL UP/DOWN buttons (**D**) to change digit value and ENTER button (**C**) to move to the next digit or screen:

Restraint: Enter the vehicle restraint serial number as shown on the Nova Technology International, LLC label underneath the barcode (**E**). **Use a zero for the first digit if your serial number is only five digits:**

RESTRAINT S/N P_____

Leveler: Enter the dock leveler serial number as shown on the Nova Technology International, LLC label underneath the barcode (**E**). **Use a zero for the first digit if your serial number is only five digits:**

LEVELER SN P_____

Door: Enter door number and position as required:

DOOR NUMBER ____
DOOR POSITION ____

- Any door number up to 4 digits can be entered, and position can be selected from the following:
  - SHIPPING
  - RECEIVING
  - NORTH
  - SOUTH
  - EAST
  - WEST
  - FRONT
  - BACK
  - SIDE

3. Scroll down to select **Save Settings**, and press ENTER:

SAVE SETTINGS

4. Turn power OFF with external disconnect as prompted:

SAVING SETTINGS...
SETUP COMPLETE TURN POWER OFF

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System Configuration (continued)

5. Wait 10 seconds, then turn system power ON with external disconnect.

6. System is now ready for use.

Replace Existing Equipment

If existing equipment is being replaced with new equipment, serial numbers must be updated for each new piece of equipment as follows:

1. When installation is finished, turn system power ON with external disconnect.

2. Verify message on system Message Display (**A**):

```
READY FOR USE
```

3. Press MENU (**B**) to enter the Main Menu. Scroll down to select **Settings** and press ENTER:

```
SETTINGS          ▲
================
```

4. Scroll down to select **Program Access** and press ENTER:

```
SETTINGS          ▲
PROGRAM ACCESS
```

5. Scroll down to select **Field Install** and press ENTER:

```
PROGRAM ACCESS    ▲
FIELD INSTALL     ▼
```

6. Follow instructions for equipment on page 12 to input serial numbers as required.

7. After installation, maintenance and fault logs from old equipment can be cleared (recommended). Press ENTER or MENU as instructed:

```
RESET MAINT. AND
FAULT LOGS?
```

```
ENTER YES
MENU NO
```

(alternating messages)

8. Turn power OFF with external disconnect as prompted:

```
SAVING
SETTINGS...
```

```
SETUP COMPLETE
TURN POWER OFF
```

9. Wait 10 seconds, then turn system power ON with external disconnect.

10. Verify changes in **System Info** menu (see page 18).

11. System is now ready for use.

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System Settings

After the iDock Control System has been installed, it may be necessary to change system Settings to suit end user's specific needs.

To access the Settings menu:

1. Turn system power ON with external disconnect.

2. Press MENU to enter the Main Menu. Scroll down to select **Settings** and press ENTER:

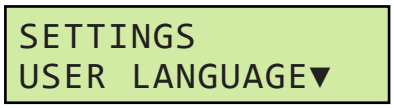


Note: Maintenance Code will be required to access the Settings menu if code has been changed from default.

3. From the Settings menu, the following can be changed or adjusted. Press MENU button to exit or return to the previous menu:

- **User Language**
- **Change User Bypass Code**
- **Change Maintenance Code**
- **Timers (if applicable)**
- **Lights & Sound**
- **Date and Time (UTC time from factory)**
- **Network Connection**
- **Program Access**
- **Restraint Use**

User Language



- To change the iDock Control System display language, press ENTER. Use the SCROLL UP/DOWN buttons to select desired language and ENTER button to confirm. The following languages are available:
  - **English**
  - **French**
  - **Spanish**

Change User Bypass Code



- To change the 3-digit User Code required to enter Bypass Mode, press ENTER. Use the SCROLL UP/DOWN buttons to change digit value and ENTER button to move to the next digit. Press MENU button to exit without saving changes:



- When the final digit has been selected, the new User Code will be saved.



Note: Setting User Code to 000 is the same as the factory default and no User Code will be required to activate Bypass Mode.

Change Maintenance Code



- To change the 8-digit Maintenance Code required to enter the Maintenance menu, press ENTER. Use the SCROLL UP/DOWN buttons to change digit value and ENTER button to move to the next digit:



- When the final digit has been selected, the new User Code will be saved.



Note: When Maintenance Code is changed from default, new Maintenance Code will be required to access the Settings menu from that point on.

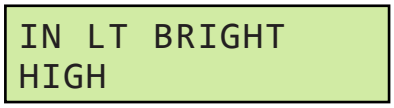
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System Settings (continued)

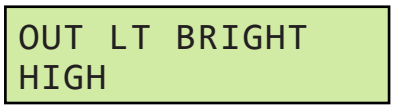
Lights & Sound



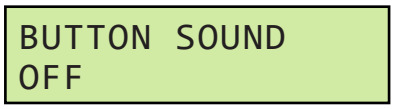
- The Lights & Sound menu allows the user to set the following:



  - **Inside Light Brightness** to change the intensity of the Multi-Colored LED Light.

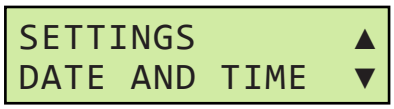


  - **Outside Light Brightness** to change the intensity of the Outside Light Assembly.

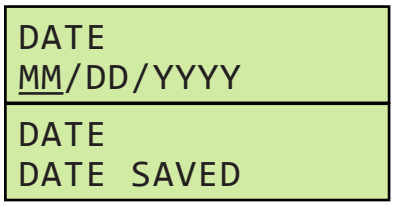


  - **Button Sound** can be turned on/off to offer audible acknowledgment anytime a button is pressed.

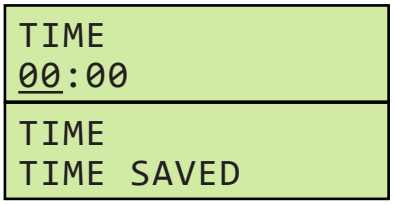
Date and Time



- The Date & Time menu allows the user to set the Date & Time for the iDock Control System:
  - **Date** setting for the month, day and year:



  - **Time** setting for local time can be changed by selecting Time. The factory default setting is UTC time. Do not change the time setting from UTC if the iDock Control System will be used with iDock Connect!



Note: iDock does not adjust for daylight savings time.

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Operational Precautions

DANGER

Stay clear of dock leveler and vehicle restraint when transport vehicle is entering or leaving dock area.

DO NOT move or use the dock leveler or restraint if anyone is under or in front of the dock leveler.

Keep hands and feet clear of pinch points. Avoid putting any part of your body near moving parts.

WARNING

Only trained personnel should operate the dock leveler and vehicle restraint.

DO NOT use a broken or damaged dock leveler or vehicle restraint. Make sure proper service and maintenance procedures have been performed on the equipment before operating.

Transport vehicle wheels must be chocked unless the vehicle restraint is used. Never remove the wheel chocks until loading/unloading is finished and transport vehicle driver has been given permission to leave.

Make sure platform lip rests on the transport vehicle bed with at least 4 in. (102 mm) of overlap.

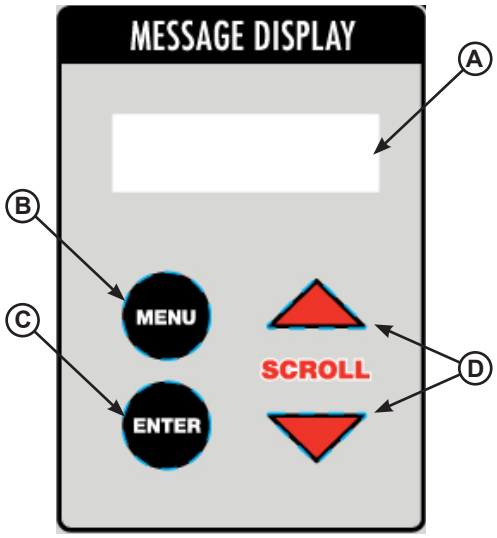
Maintain a safe distance from side edges of leveler during the loading/unloading process.

WARNING

Once the vehicle restraint has been activated, the dock attendant must visually inspect to assure that the restraint hook has properly engaged the Rear Impact Guard (RIG) bar.

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System Boot & User Code Entry



System Control Buttons/Displays
A - Message Display
B - MENU button
C - ENTER button
D - SCROLL UP/DOWN buttons

System Boot

1. Turn system power ON with external disconnect.

```
   SYSTEMS
Boot v0.0.0
```

```
   SYSTEMS
MAIN v0.0.0
```

```
   SYSTEMS
BLE v0
```

(alternating messages)

Note: (Versions referenced above will vary based on manufacturing date.)

Note: If Message Display (**A**) also displays "MAINTENANCE DUE," equipment may still be operated, but Planned Maintenance is due. See **PM Reset** on page 14 for instructions on resetting maintenance reminder.

```
READY FOR USE
MAINTENANCE DUE
```

- If a fault is active, the message display will list the fault. See pages 23 for fault details and how to clear fault before operating equipment.

Enter User Code

Note: Bypass Mode may require a User Code for access. The User Code is defined in the Settings Menu during initial setup.

No code is default from factory. Owner/user is responsible to define 3-digit code if required; this code can be added or changed at any time.

1. Verify user code prompt on system Message Display:

```
ENTER USER CODE
000
```

2. Use the SCROLL UP/DOWN buttons (**D**) to change digit value and ENTER button (**C**) to move to the next digit until the three-digit user code is entered.

3. Locked function can now be used.

Note: User Code access may be restricted. Contact a supervisor if system User Code is unknown

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OPERATION

Main Menu

When equipment is not in use, various functions can be accessed from the iDock Control System main menu. The user can see equipment information, change basic settings, and more.

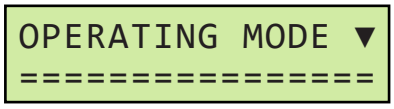
To access the Main Menu:

1. Press MENU button (**B**). User is now in the Main Menu. The following functions are available:

- **Operating Mode**
- **Equipment Info**
- **System Info**
- **Counters**
- **Maintenance**
- **Settings**

Note: Once Main Menu is active, both the inside and outside lights will change to solid red with no flashing.

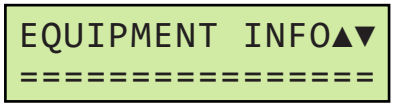
Operating Mode



- **Restraint Only and Leveler/Restraint models:** Allows user to select the following operating modes:
  - **Normal**
  - **Bypass**
  - **Lights On/ Off**

See Operating Instructions for specific equipment on pages 20-21 for more information.

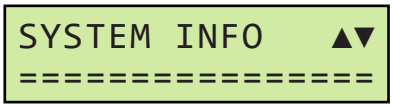
Equipment Info



- Allows the user to view the following data (if applicable):
  - **Controller Serial Number**
  - **Restraint Serial Number**
  - **Restraint Install Date**
  - **Leveler Serial Number**
  - **Leveler Install Date**
  - **Door Number**
  - **Door Position**

Note: This information is presented in a read-only view. See Installation on pages 12-13 for instructions on inputting/changing this information.

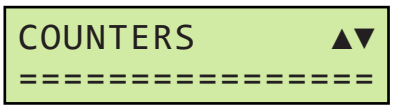
System Info



- Allows the user to view the following system configuration data (if applicable):
  - **Brand Name**
  - **Restraint Model**
  - **Leveler Model**
  - **Door Buttons**
  - **Interlocks**
  - **Dock Light**
  - **Expansion Board**
  - **CentraPower**
  - **Leveler Stored Indicator**

Note: This information is presented in a read-only view. These settings are determined by the factory. If any setting does not correspond to the equipment being used, contact Nova Technology International, LLC Technical Services.

Counters



- Allows the user to view the following system counters (if applicable):
  - **Next PM Date**
  - **Logged PM's**
  - **Restraint Engage Cycles**
  - **Restraint Release Cycles**
  - **Restraint Bypass Cycles**
  - **Missed ICC**
  - **Leveler Cycles**
  - **Door Control Codes**
  - **Vehicle Present**
  - **Fork Lift**
  - **Door Cycles**
  - **Missed ICC Bar**

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Main Menu (continued)

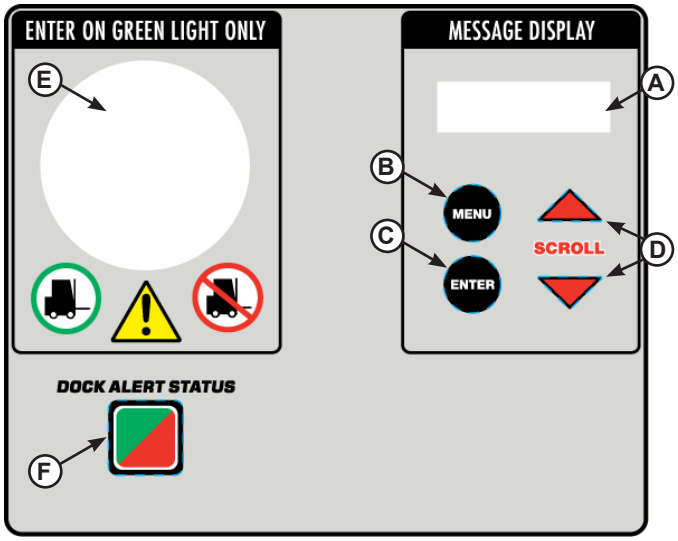
Settings



- Allows the user to change various system settings (if applicable):
  - **User Language**
  - **Change User Code**
  - **Change Maintenance Code**
  - **Timers**
  - **Lights & Sound**
  - **Date and Time**
  - **Network CXN**
  - **Program Access**
  - **Restraint Use**

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OPERATION



System Control Buttons/ Displays
A - Message Display
B - MENU button
C - ENTER button
D - SCROLL UP/DOWN buttons
E - Multi-Colored LED Light

Equipment Control Buttons
F - DOCK ALERT STATUS button

Operation

1. Verify messages on system Message Display (**A**).

RESTRAINT IN STORED POSITION
READY FOR USE

(alternating messages)

Inside light (E) flashing RED, outside light flashing GREEN

2. If Rear Impact Guard (RIG) is missing or other obstructions are present, go to step 10.
3. Open the overhead door and check to make sure transport vehicle is positioned squarely against both dock bumpers.
4. Manually activate restraint to engage RIG.
5. Verify messages on system Message Display (A).

OPERATE DOOR AND LEVELER
ENGAGED VERIFY CAPTURE

(alternating messages)

Inside light (E) flashing GREEN, outside light flashing RED.

6. Use the dock leveler (if available) to complete loading and/or unloading the transport vehicle.
7. When loading and/or unloading is finished, store dock leveler (if available).
8. Manually release restraint and store it.
9. Verify messages on system Message Display (A).

RESTRAINT IN STORED POSITION
READY FOR USE

(alternating messages)

Inside light (E) flashing RED, outside light flashing GREEN

10. Press DOCK ALERT STATUS button (F) to change lights to notify driver of loading/unloading.

Inside light (E) flashing AMBER/GREEN, outside light flashing RED

11. Verify messages on system Message Display (A).

SECURE TRAILER BY OTHER MEANS
OPERATE DOOR AND LEVELER
PRESS STATUS TO RESET LIGHTS

(alternating messages)

12. Open the overhead door, and check to make sure transport vehicle is positioned squarely against both dock bumpers.
13. Chock the transport vehicle wheels.
14. Use the dock leveler (if available) to complete loading and/or unloading the transport vehicle.

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15. When loading and/or unloading is finished, store dock leveler (if available).
16. Remove chock from transport vehicle wheels.
17. Press DOCK ALERT STATUS button (F) to change lights to notify driver it is safe to depart.

    Inside light (E) flashing RED, outside light flashing GREEN
18. Verify messages on system Message Display (A).

RESTRAINT IN STORED POSITION
READY FOR USE

(alternating messages)

If Alarm Sounds

19. Restraint is not in stored position and does not recognize RIG of transport vehicle.
20. Verify messages on system Message Display (A).

CHECK RESTRAINT AND TRY AGAIN
IS RESTRAINT NOT STORED

(alternating messages)

    Inside light (E) flashing AMBER/RED, outside light flashing RED and ALARM is on.
21. Store restraint and hit ENTER (C).
22. Verify messages on system Message Display (A).

RESTRAINT IN STORED POSITION
READY FOR USE

(alternating messages)

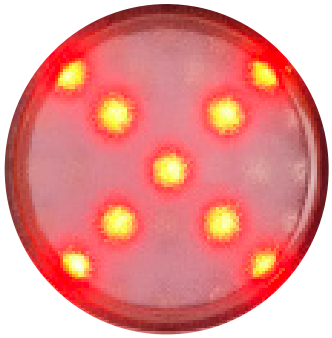
    Inside light (E) flashing RED, outside light flashing GREEN and ALARM is off.
23. Go to Page20, Step 10.

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TROUBLESHOOTING

Multi-Colored Light







Red





Amber





Green

The iDock Control System is equipped with a Multi-Colored LED Light that provides a simple and easily-understood visual reference for dock workers.

The Multi-Colored Light can display red, amber and green colors, along with various flashing patterns to provide information to the user. The Multi-Colored Light can also work with the system Message Display to troubleshoot and provide diagnostic information.

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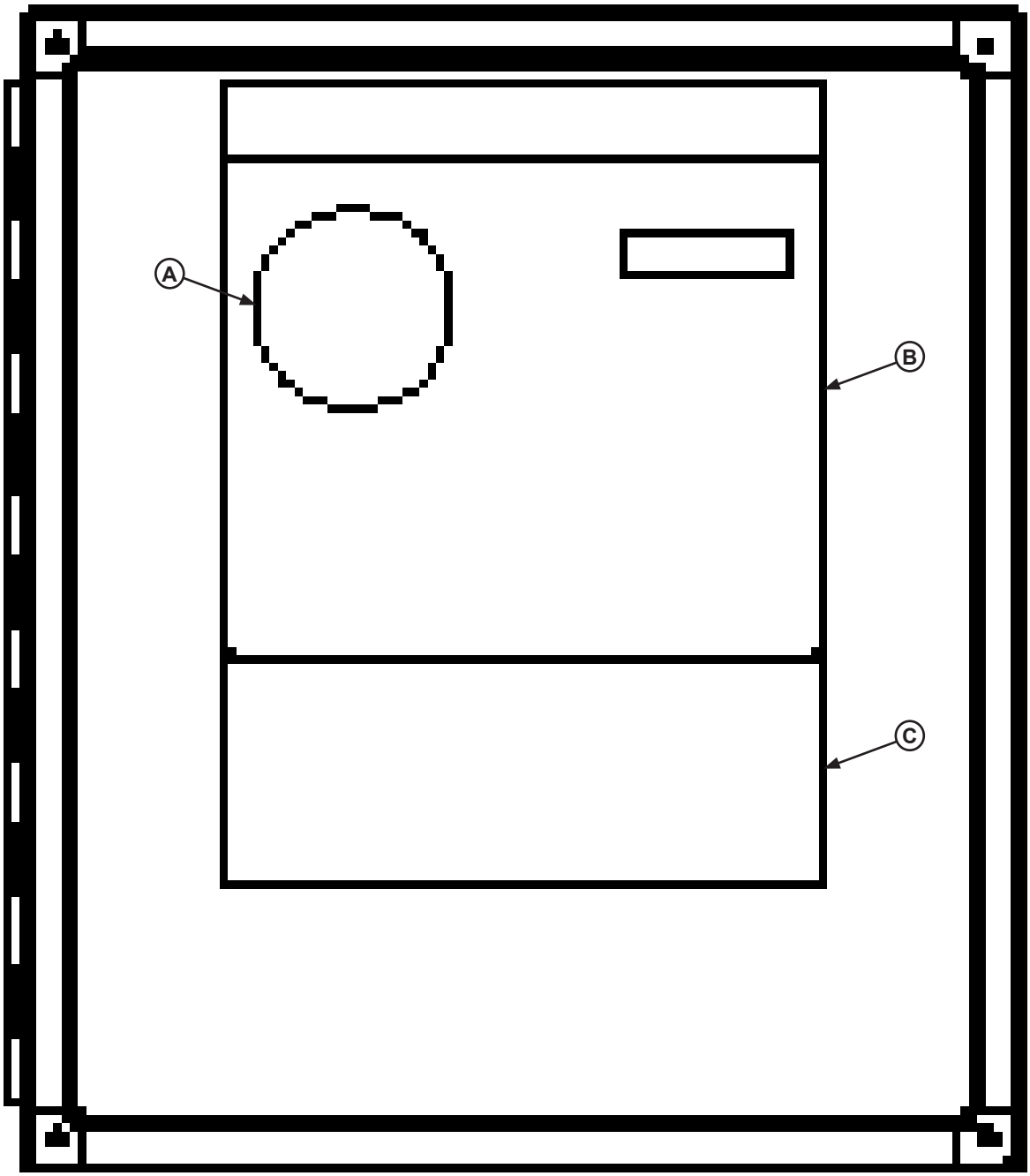
System Faults

#	Fault	Cause	Troubleshooting
1	**RED OSLA FAIL (RED OUTSIDE LIGHT FAILURE)**	Red outside light current draw is 0 amps.	Check outside light for damage or failure. Check field wiring connections at terminal board and outside light. Check outside light for correct voltage (12v).
2	**GRN OSLA FAIL (GREEN OUTSIDE LIGHT FAILURE)**	Green outside light current draw is 0 amps.	Check outside light for damage or failure. Check field wiring connections at terminal board and outside light. Check outside light for correct voltage (12v).
3	**IN LIGHT FAIL (INSIDE LIGHT FAILURE)**	Inside LED assembly current draw is 0 amps.	Check inside LED cable connection to main board. Check inside LED cable for cuts or kinks. Check inside LED solder connections for damage or breaks. Check main board for damage near LED cable connection.
4	**DOUBLE GREEN LIGHT FAILURE**	Inside LED assembly and outside light assembly are green. This is not a permissible state	Cycle power. Check field wiring connections at terminal board and outside light assembly. If problem persists, contact systems technical services.
50	**LOW VOLTAGE (LOW SYSTEM VOLTAGE)**	Low input voltage from 12v power supply to terminal board.	Verify sufficient line voltage input to control box. Adjust 12v power supply to ensure voltage output is 12 VDC or higher. Replace 12v power supply if voltage input is adequate yet voltage output cannot be adjusted over 12 VDC.

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PARTS

External Components

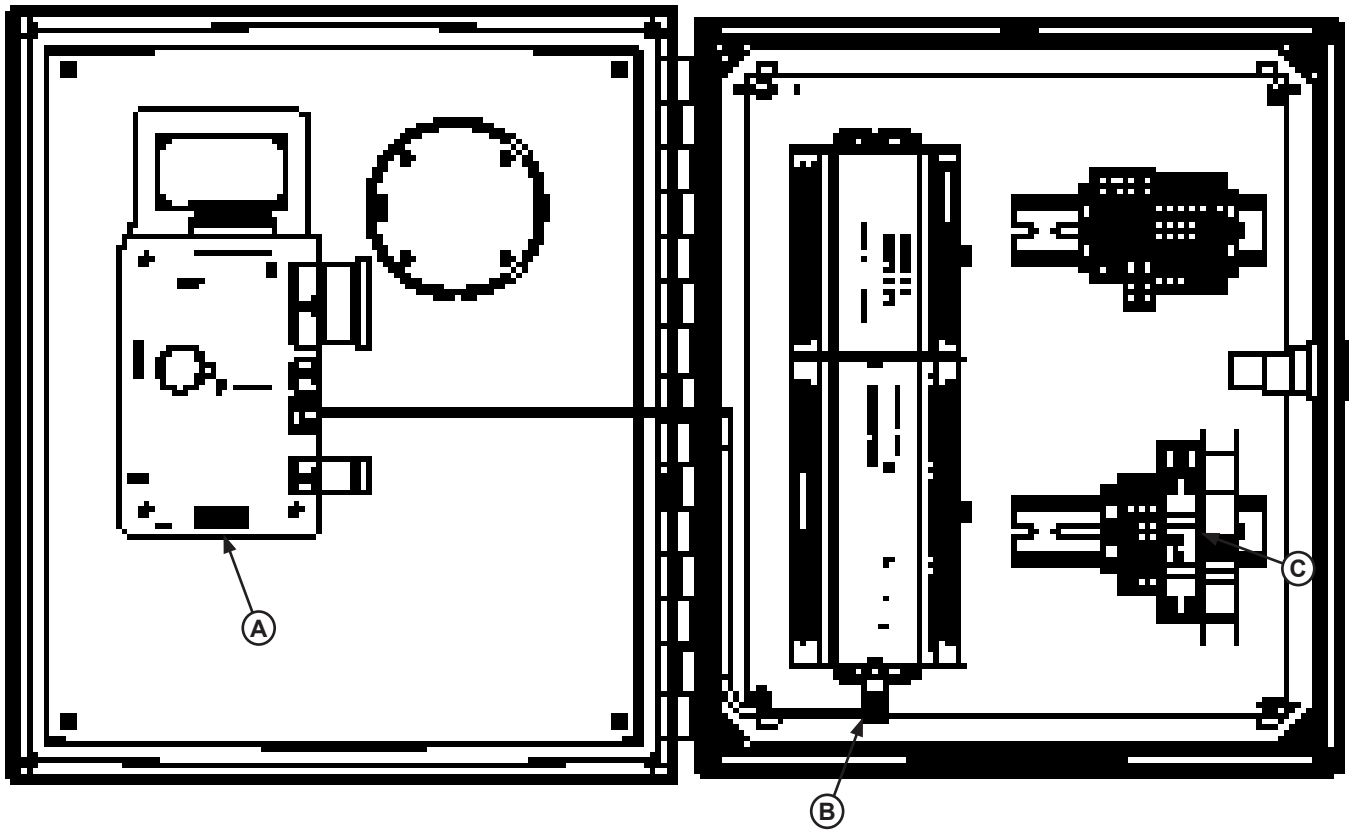


Item	Quantity	Part Number	Description
A	1	0961-0002	LED Light Board Assembly
B	1	*	Primary Pushbutton Membrane
C	1	*	Secondary Pushbutton Membrane

**Provide iDock Control System serial number when e-mailing, calling or faxing orders.*

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Internal Components



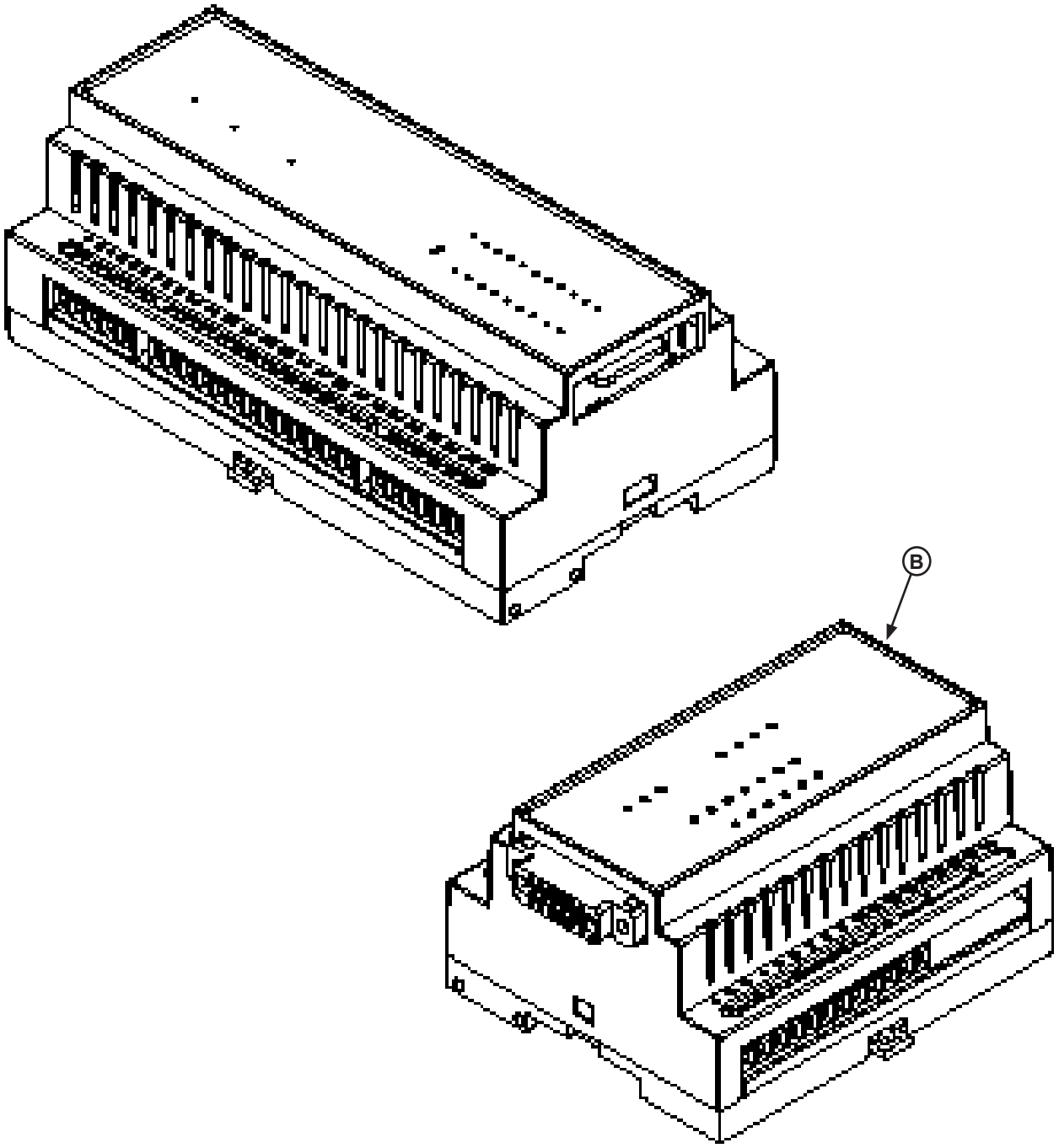
Item	Quantity	Part Number	Description
A	1	0965-0001*	Main Board
B	1	4305-0618	RJ45 Cable
C	1	1841-0143*	Power Supply, 30W
		1841-0146*	Power Supply, 60W (not pictured)

**Provide iDock Control System serial number when e-mailing, calling or faxing orders.*

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PARTS

Terminal/Expansion Boards



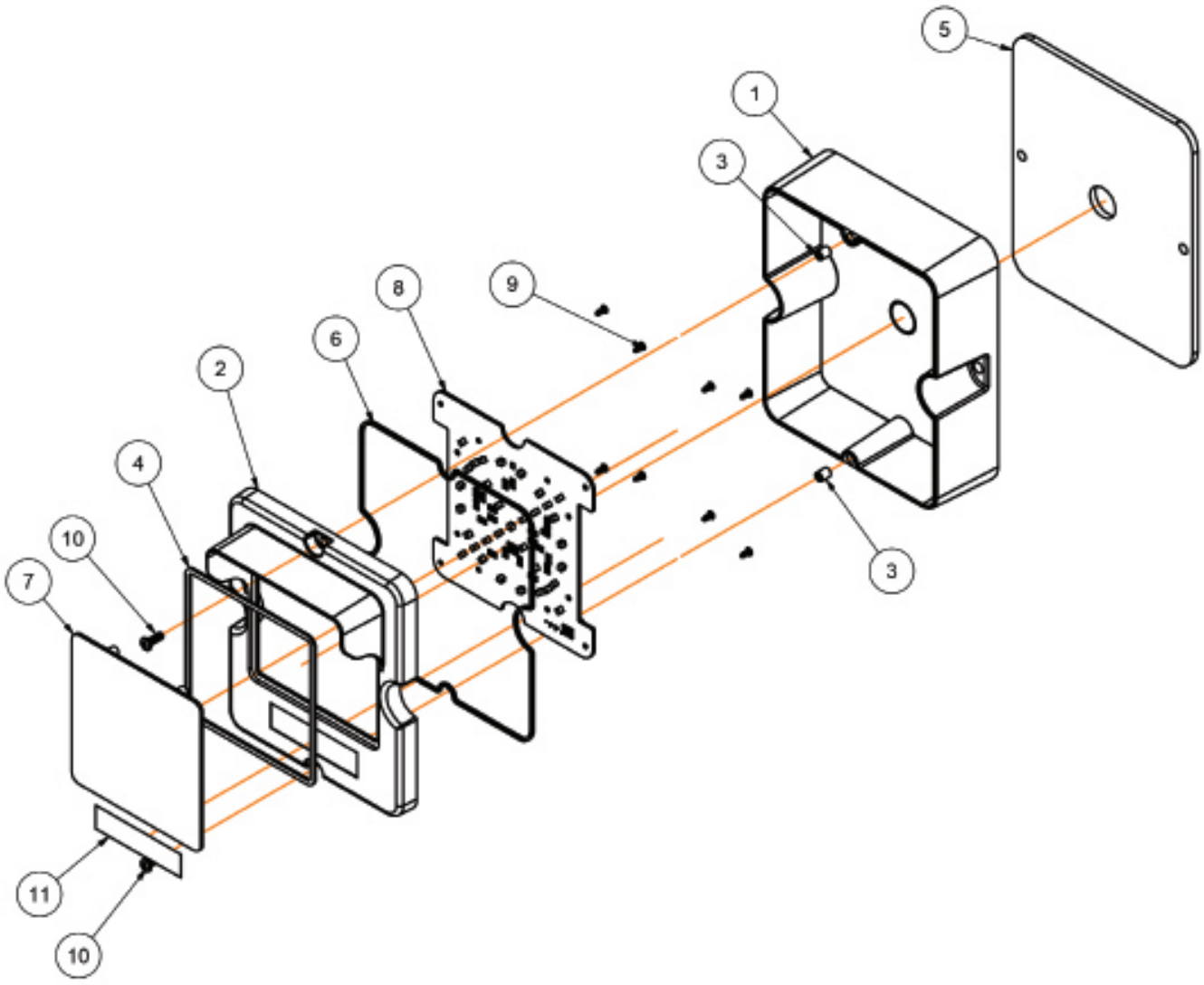
Item	Quantity	Part Number	Description
A	1	7141-0359*	Terminal Board, Large
		7141-0358*	Terminal Board, Small (not pictured)
B	1	7141-0360*	Expansion Board

**Provide iDock Control System serial number when e-mailing, calling or faxing orders.*

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PARTS

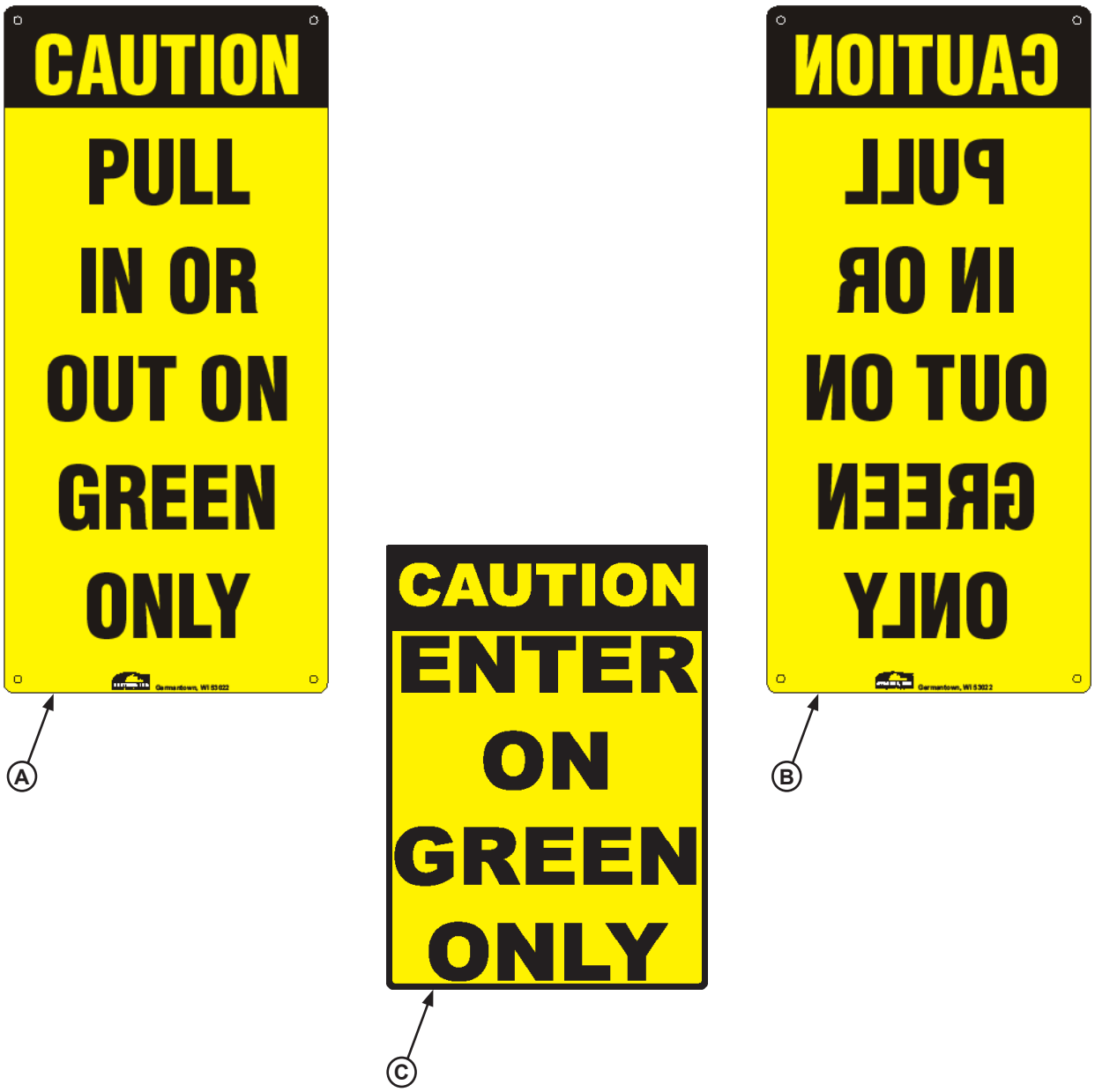
OSLA (Outside Light Assembly)



Item	Qty	Part No.	Description
1	1	3051-0432	Housing, Polycarbonate, OSLA
2	1	3051-0426	Cover, Polycarbonate, OSLA
3	2	3051-0427	Thru-Insert, 8-32 Unc, 5/16
4	1	3051-0428	Gasket, Lens, OSLA
5	1	3051-0429	Gasket, Foam, OSLA
6	1	3051-0430	Gasket, Cover, OSLA
7	1	3051-0431	Lens Cover, Polycarbonate, OSLA
8	1	7141-0398	Pcb, Led, OSLA
9	8	2101-0346	Screw, Phtfs, #4-24 X 0.25
10	2	2101-0022	#8-32 Unc X 0.50
11	1	1751-1421	Decal, Systems, OSLA

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Signs

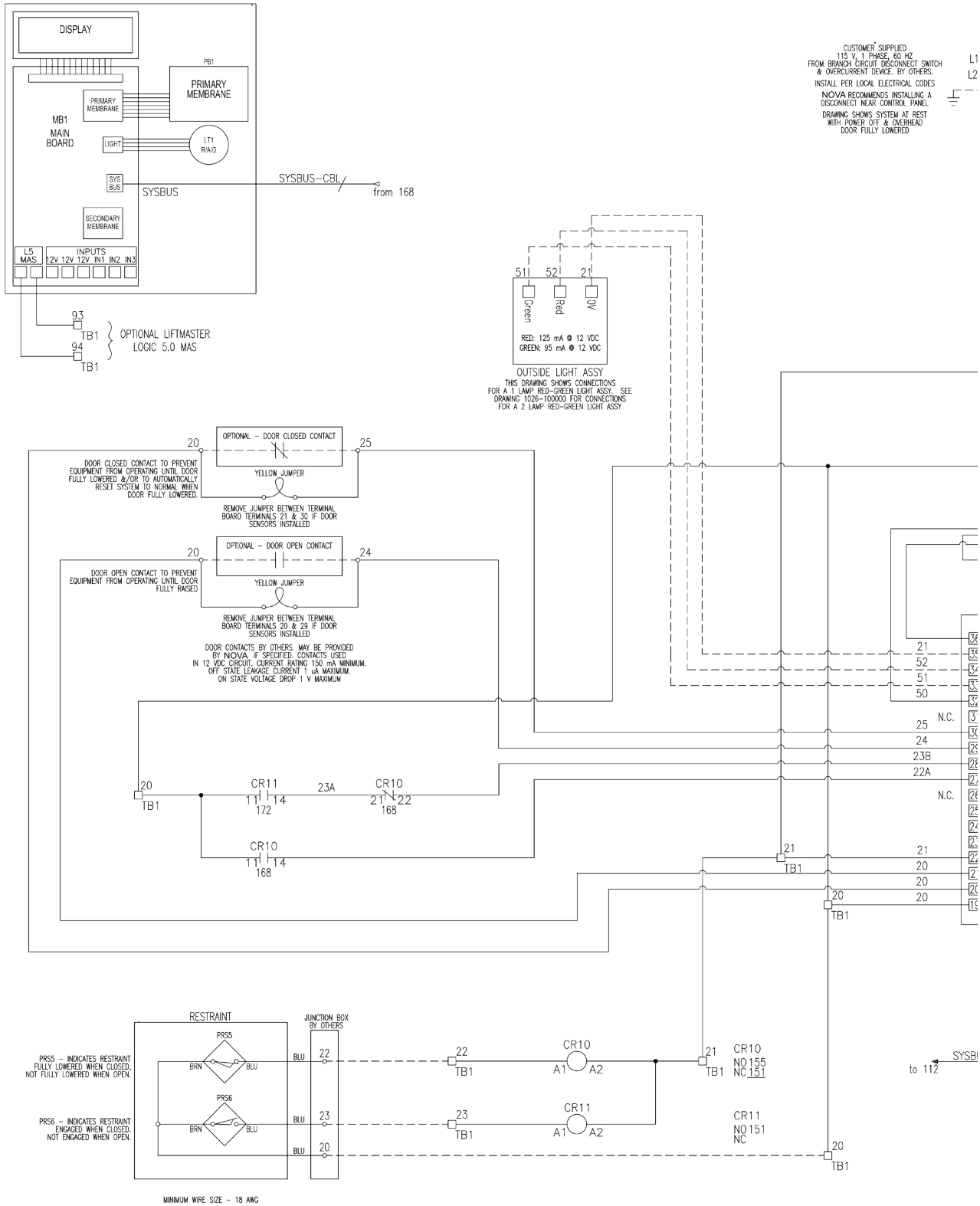


Item	Part Number	Description
A	1751-0033	Outside Sign, Pull In/Out
B	1751-0034	Outside Sign, Pull In/Out (Mirror Image)
C	1751-0036	Inside Sign, Enter On Green Only

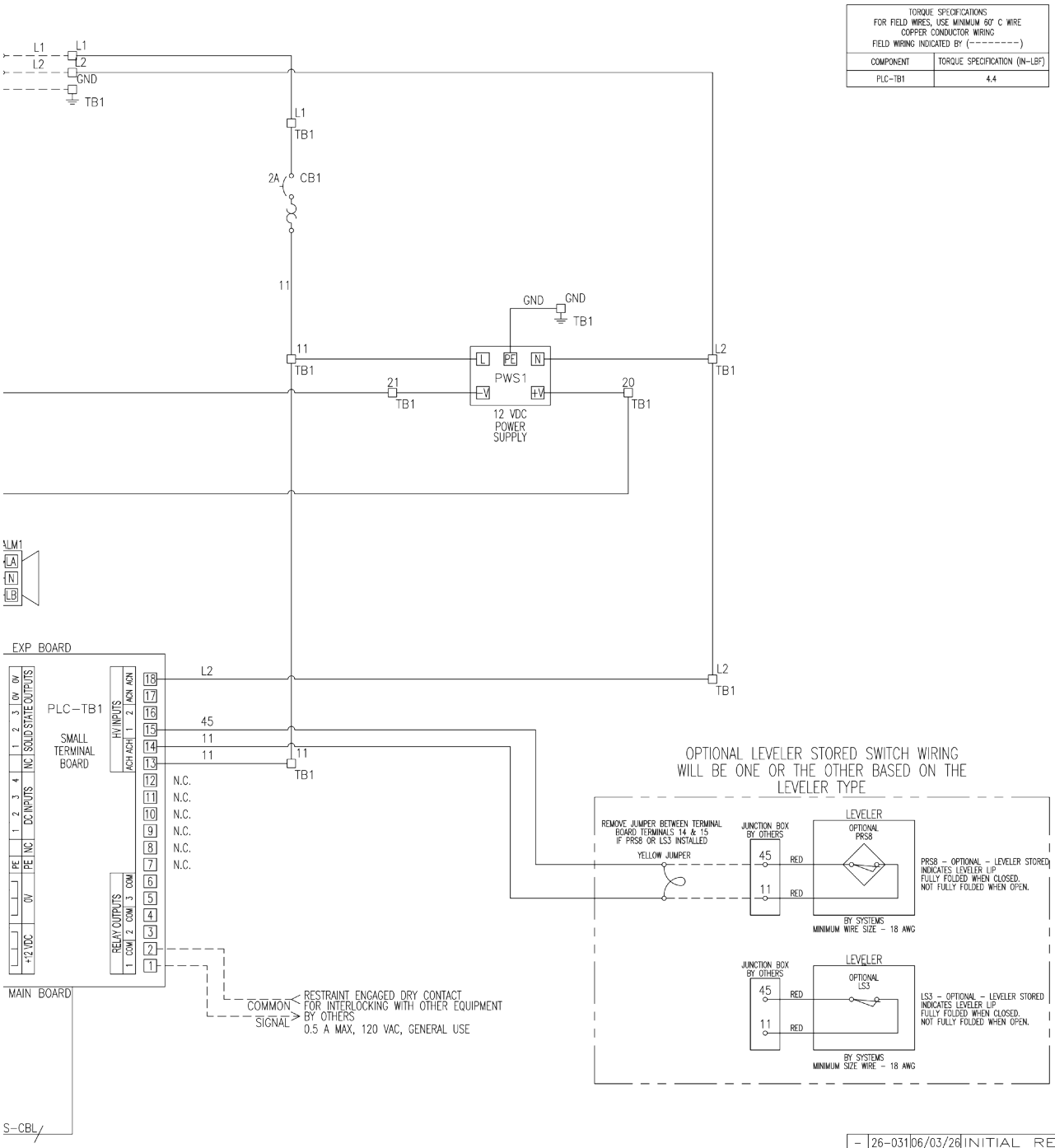
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-	26-031	06/03/26	INITIAL RELEASE

ELECTRICAL SCHEMATIC
MAIN TERMINAL BOARD

SEE OPTIONS AND FEATURES STICKER ON INSIDE OF CONTROLLER FOR APPLICABLE OPTIONS

REFER TO IDOCK USER'S MANUAL FOR PROPER OPERATION OF EQUIPMENT

FOR APPLICATIONS WHERE MOISTURE IS A CONCERN REFER TO TECHNICAL SERVICE BULLETIN TSB 19-053

LEVELER: NONE	RESTRAINT: EZ-LOCK
115 VOLTS	1 PHASE	60 HERTZ
DATE: 05/28/26	DRAWING NO.
DRAWN BY: MLC	9004-0A01
SHT 1 OF 2	

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