240-3053-1 REMOTE COLOR CHANGE BOX
INSTALLATION INSTRUCTIONS
In this part sheet, the words **WARNING**, **CAUTION** and **NOTE** are used to emphasize important safety information as follows:

**WARNING**
Hazardous or unsafe practices which could result in severe personal injury, death or substantial property damage.

**CAUTION**
Hazardous or unsafe practices which could result in minor personal injury, product or property damage.

**NOTE**
Important installation, operation or maintenance information.

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**WARNING**

Read the following warnings before using this equipment.

- **READ THE MANUAL**
  Before operating finishing equipment, read and understand all safety, operation and maintenance information provided in the operation manual.

- **OPERATOR TRAINING**
  All personnel must be trained before operating finishing equipment.

- **EQUIPMENT MISUSE HAZARD**
  Equipment misuse can cause the equipment to rupture, malfunction, or start unexpectedly and result in serious injury.

- **LOCK OUT / TAG-OUT**
  Failure to de-energize, disconnect, lock out and tag-out all power sources before performing equipment maintenance could cause serious injury or death.

- **AUTOMATIC EQUIPMENT**
  Automatic equipment may start suddenly without warning.

- **PRESSURE RELIEF PROCEDURE**
  Always follow the pressure relief procedure in the equipment instruction manual.

- **KEEP EQUIPMENT GUARDS IN PLACE**
  Do not operate the equipment if the safety devices have been removed.

- **KNOW WHERE AND HOW TO SHUT OFF THE EQUIPMENT IN CASE OF AN EMERGENCY**

- **WEAR SAFETY GLASSES**
  Failure to wear safety glasses with side shields could result in serious eye injury or blindness.

- **INSPECT THE EQUIPMENT DAILY**
  Inspect the equipment for worn or broken parts on a daily basis. Do not operate the equipment if you are uncertain about its condition.

- **NEVER MODIFY THE EQUIPMENT**
  Do not modify the equipment unless the manufacturer provides written approval.

- **NOISE HAZARD**
  You may be injured by loud noise. Hearing protection may be required when using this equipment.

- **PROJECTILE HAZARD**
  You may be injured by venting liquids or gases that are released under pressure, or flying debris.

- **STATIC CHARGE**
  Fluid may develop a static charge that must be dissipated through proper grounding of the equipment, objects to be sprayed and all other electrically conductive objects in the dispensing area. Improper grounding or sparks can cause a hazardous condition and result in fire, explosion or electric shock and other serious injury.

- **ELECTRIC SHOCK / GROUNDING**
  Improper grounding or sparks can cause a hazardous condition and result in fire, explosion or electric shock and other serious injury.

- **PINCH POINT HAZARD**
  Moving parts can crush and cut. Pinch points are basically any areas where there are moving parts.

- **HIGH PRESSURE CONSIDERATION**
  High pressure can cause serious injury. Relieve all pressure before servicing. Spray from the spray gun, hose leaks, or ruptured components can inject fluid into your body and cause extremely serious injury.

- **WEAR RESPIRATOR**
  Toxic fumes can cause serious injury or death if inhaled. Wear a respirator as recommended by the fluid and solvent manufacturer’s Material Safety Data Sheet.

- **TOXIC FLUID & FUMES**
  Hazardous fluid or toxic fumes can cause serious injury or death if splashed in the eyes or on the skin, inhaled, injected or swallowed. LEARN and KNOW the specific hazards or the fluids you are using.

- **PLURAL COMPONENT MATERIALS HAZARD**
  Because of the vast number of chemicals that could be used and their varying chemical reactions, the buyer and user of this equipment must determine all facts relating to the materials used, including any of the potential hazards involved.

- **EXPLOSION HAZARD**
  Halogenated hydrocarbon solvents can cause an explosion when in contact with aluminum components of a pressurized or closed fluid system.

- **FIRE AND EXPLOSION HAZARD**
  Improper equipment grounding, poor ventilation, open flame or sparks can cause a hazardous condition and result in fire or explosion and serious injury.

- **PROP 65 WARNING**
  WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**NOTE**

IT IS THE RESPONSIBILITY OF THE EMPLOYER TO PROVIDE THIS INFORMATION TO THE OPERATOR OF THE EQUIPMENT. FOR FURTHER SAFETY INFORMATION REGARDING THIS EQUIPMENT, SEE THE GENERAL EQUIPMENT SAFETY BOOKLET (77-5300).

Binks reserves the right to modify equipment specification without prior notice.
Remote Color Change Box

The remote color change box is used with the GEMS system for in-booth control of flushes, color changes, and alarm resets.

For proper operation of this accessory the GEMS system requires a Zener barrier wired in series with the electrical component used in the hazardous area. The barrier is installed in a box attached to the back of the GEMS control enclosure. The box can accept up to three barriers for in-booth capability of:

- Remote color change box
- Paint flow meter (on GEMS fluid panel)
- Solvent flow meter (on GEMS fluid panel)

This manual describes the installation of the barrier box and remote color change box. For information on installation of the barriers for in-booth use of the flow meters, see manual 77-3094: Zener Barrier Box Installation.

240-3053-1 Package Contents:

- Remote color change box with 50’ [15m] cable
- NEMA 4 barrier box with mounting hardware
- Zener barrier with associated wiring

Note this part number does not include a barrier for in-booth operation of the paint flow meter. To order a package for in-booth color change and fluid panel capability, order part # 240-3053-2.
Installation

The remote color change box is designed to be used inside a hazardous environment, such as a spray booth, however, the Zener barrier box must remain with the GEMS control in the non-hazardous area. Mount the barrier box to the GEMS mast as described below.

⚠️ WARNING

Installation should be performed by a qualified electrician. Improper installation could create a spark, resulting in fire or explosion.

Verify the wiring inside the barrier box by referring to the tables below. See the 77-2983 Maintenance & Repair Manual for a wiring diagram and enclosure locations.

<table>
<thead>
<tr>
<th>TABLE A—BARRIER WIRING</th>
<th>TABLE B—ENCLOSURE WIRING</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WIRE NUMBER &amp; COLOR</strong></td>
<td><strong>BARRIER TERMINAL (1-8)</strong></td>
</tr>
<tr>
<td>219 RED</td>
<td>8</td>
</tr>
<tr>
<td>322 WHITE</td>
<td>5</td>
</tr>
<tr>
<td>276 BLACK</td>
<td>6</td>
</tr>
<tr>
<td>none GREEN</td>
<td>GRD foot</td>
</tr>
<tr>
<td>4421 RED</td>
<td>1</td>
</tr>
<tr>
<td>4441 WHITE</td>
<td>4</td>
</tr>
<tr>
<td>DCC BLACK</td>
<td>3</td>
</tr>
</tbody>
</table>

Mount the barrier box to the GEMS mast using the mounting bracket and supplied bolts and nuts, as shown.
Route the cable from the box (240-3072-3) through an available strain relief and into the GEMS enclosure.

<table>
<thead>
<tr>
<th>CABLE NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>240-3072-3</td>
<td>Cable, IS Remote Color Change</td>
</tr>
</tbody>
</table>

The barrier box cable (240-3072-3) will connect to the terminals indicated here. Reroute the new harness into the enclosure and connect wires #219, 276, and 322 in the correct terminal positions as shown.

- **#219 (red - +24V) L2C14**
  - Bottom front terminal on this block
- **#276 (black - DCC) L2C24**
  - Bottom rear terminal on this block
- **#322 (white - signal) L3D7**
  - 7th terminal from right

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Mount the in-booth color change box in the desired location, ensuring adequate cable length for the installation.

For reference, note the barrier terminal connections for the inbooth color change box. Verify the wires 4441, 4421, and DCC are connected properly according to table C.

**TABLE C—COLOR CHANGE BOX WIRING**

<table>
<thead>
<tr>
<th>WIRE NUMBER</th>
<th>BARRIER TERMINAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>4441</td>
<td>4</td>
</tr>
<tr>
<td>4421</td>
<td>1</td>
</tr>
<tr>
<td>DCC</td>
<td>3</td>
</tr>
</tbody>
</table>

Run the required length of pneumatic tubing for the color change box. The 5/32” tubing should enter the GEMS enclosure in the top right bulkhead, when viewed from the back side. This will connect it to solenoid TRG2 which now needs to be rewired.

For the pneumatic indicator to signal alarms, the wiring must be adjusted slightly. The TRG2 solenoid will become the pneumatic indicator solenoid. Remove wire #354 completely and replace it with jumper wire #341. One end should connect into terminal B13 and the other end should go into the board slot with existing wire #341.
Remote Color Change Operating Instructions

LOADING OR CHANGING A COLOR: When a color change or load is required, shut off atomizing air to the spray gun. Turn the rotary switch to the desired color number, and press the push button for 5 seconds until the flushing and / or loading process begins. Trigger the gun into a grounded metal waste container. Flow will stop when the paint is loaded and ready to spray. Engage atomizing air to begin spraying.

ALARMS: The pneumatic indicator will show when the unit is in alarm mode. To silence and reset the alarm, press the push button. If the alarm repeats, the operator should return to the GEMS control and resolve the alarm at the touch screen.

USING WITH FLUSH BOXES: Place the gun in the flush box and close the lid completely before starting a color change or load.

NOTE
The remote color change box is designed to only be used with single gun systems. It cannot be used with two spray guns.
WARRANTY POLICY

Binks products are covered by Finishing Brands one year materials and workmanship limited warranty. The use of any parts or accessories, from a source other than Finishing Brands, will void all warranties. For specific warranty information please contact the closest Finishing Brands location listed below.

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- www.binks.com
- info@carlisleft.com
- Tel: 1-800-992-4657
- Fax: 1-888-246-5732

**United Kingdom**
- www.finishingbrands.eu
- info@carlisleft.eu
- Tel: +44 (0)1202 571 111
- Fax: +44 (0)1202 573 488

**China**
- www.finishingbrands.com.cn
- mkt@carlisleft.com.cn
- Tel: +8621-3373 0108
- Fax: +8621-3373 0308

**Mexico**
- www.carlisleft.com.mx
- ventas@carlisleft.com.mx
- Tel: 011 52 55 5321 2300
- Fax: 011 52 55 5310 4790

**France**
- www.finishingbrands.eu
- info@carlisleft.eu
- Tel: +33(0)475 75 27 00
- Fax: +33(0)475 75 27 59

**Japan**
- www.ransburg.co.jp
- overseas-sales@carlisleft.co.jp
- Tel: 081 45 785 6421
- Fax: 081 45 785 6517

**Brazil**
- www.devilbiss.com.br
- vendas@carlisleft.com.br
- Tel: +55 11 5641 2776
- Fax: 55 11 5641 1256

**Germany**
- www.finishingbrands.eu
- info@carlisleft.eu
- Tel: +49 (0) 6074 403 1
- Fax: +49 (0) 6074 403 281

**Australia**
- www.finishingbrands.com.au
- sales@carlisleft.com.au
- Tel: +61 (0) 2 8525 7555
- Fax: +61 (0) 2 8525 7500