240-3194 REMOTE MIX MANIFOLD
INSTALLATION INSTRUCTIONS
In this part sheet, the words **WARNING**, **CAUTION** and **NOTE** are used to emphasize important safety information as follows:

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

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

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

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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.

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**WARNING**
    
    Read the following warnings before 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.

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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 Mix Block

The 240-3194 remote mix block allows the user to shorten mixed material fluid lines and reduce flushing waste and time. This device is recommended for use on one-color machines where waste savings are maximized. If used with a multi-color unit the benefit is reduced because the resin line to the manifold must flush and load for each color change.

If used in a one-color setup the solvent supply should be plumbed independently of the GEMS system so only the mixed material downstream from the mix block is flushed. This way, during flushing, the machine will not be aware of the flush process.

See below for parts that may be needed for proper integration.

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
<th>PURPOSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>20-2287-1</td>
<td>1/8&quot; NPT PLUG</td>
<td>1</td>
<td>Plug injector valve</td>
</tr>
<tr>
<td>240-3122-300</td>
<td>STATIC MIXER ASSEMBLY, 300CC</td>
<td>1</td>
<td>May be used as gun whip</td>
</tr>
<tr>
<td>240-3122-600</td>
<td>STATIC MIXER ASSEMBLY, 600CC</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>240-3128-06</td>
<td>3/8” ODT COMPRESSION FERRULE, 10 PACK</td>
<td>1</td>
<td>Hardener hose pump end</td>
</tr>
<tr>
<td>240-3134</td>
<td>3/8 NPS X 1/4 ID TUBE CONNECTOR</td>
<td>1</td>
<td>Hardener hose gun end</td>
</tr>
<tr>
<td>SSP-5020</td>
<td>FEP TUBING, 1/4” ID</td>
<td>As needed</td>
<td>Hardener hose</td>
</tr>
<tr>
<td>72-798</td>
<td>DM NIPPLE, 3/8” X 3/8” NPS</td>
<td>1</td>
<td>Connecting hoses</td>
</tr>
<tr>
<td>HC-513-1</td>
<td>FLUID QD BODY, 3/8” NPS MALE</td>
<td>–</td>
<td>Solvent / Resin Switch</td>
</tr>
<tr>
<td>HC-4691</td>
<td>FLUID QD STEM, 3/8” NPS SWIVEL</td>
<td>–</td>
<td>Solvent / Resin Switch</td>
</tr>
</tbody>
</table>

Installation

For GEMS component and assembly descriptions please refer to **77-2983 Maintenance & Repair Manual**.

Shut down and depressurize the GEMS system per instructions in **77-2982 Operations Manual**. Verify all fluid pressure is relieved. Use a 1/4” ID FEP hose to connect the GEMS dispense pump outlet to the mix block inlet location labeled ‘cat’ (3/8” NPS).
Remove and replace with 20-2287-1

Remove 3/8” NPS x 1/4” NPT nipple from mix manifold injector valve and plug the injector valve with 1/8” NPT stainless steel plug 20-2287-1.

Remove 240-3122-300 or 240-3122-600 static mixer from outlet of mix manifold and connect it to the remote mix block outlet to be used as a mixer / whip hose. For additional whip hose length another hose may be added. Connect the resulting whip hose to the fluid inlet of the spray gun.

Use a suitable resin hose to connect the mix manifold outlet to the resin inlet of the remote mix block.

**FOR SINGLE COLOR SETUPS:** For easier switching between solvent and paint resin on single color systems use the quick disconnects referenced in the table on page 3. Disconnect the solvent line from the GEMS color stack and use QD bodies on the end of the paint resin and solvent line to connect to a QD stem installed on the resin inlet of the remote mix block.

**FOR MULTI-COLOR SETUPS:** Keep the GEMS color stack plumbed as normal. Color changes and flushes will be performed through the color stack.

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**Operation**

**FOR SINGLE COLOR SYSTEMS:** Go to the **Settings / Gun 1 Flush/Load Sequence** screen and change the Gun 1 Load Volume setting to the new volume established only by the whip hose. For example, a 5 foot [1.5m] x 1/4” ID whip hose has an internal volume of approximately 50cc. Since the load process only loads mixed material from the remote mix block to the gun, the load volume for a single color system can be greatly reduced.

When using the fluid QDs to flush, the system will not recognize the solvent purge, so pot life will continue to count down. Pot life may only be reset by reloading the paint color or performing a “continuous flush” to cancel pot life count down (color 0 becomes current color; pot life becomes null).

To flush, remove the paint resin QD from the mix block and connect the solvent QD, then trigger the gun with atomizing air off.

Load paint as normal—use the color change screen to start the load sequence. Do not use the color change screen for flushing.

**FOR MULTI-COLOR SYSTEMS:** The load volume may be changed to the volume of the mixer/whip hose, but flushing and changing colors will have to be performed primarily via the prime screen. Programmable flushing does not apply to the remote mix block.

To flush, use the Continuous Flush function on the Prime screen until all paint has been flush form the lines.

To load paint, first prime the new resin color to the mix manifold, then load mixed paint to the gun using the Color Change screen.
## Parts Breakdown

<table>
<thead>
<tr>
<th>NO.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>240-3196</td>
<td>INLET MANIFOLD HALF</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>240-3195</td>
<td>OUTLET MANIFOLD HALF</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>240-3197</td>
<td>SCREW KIT (INCLUDES 4 SCREWS)</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>E21-0032</td>
<td>CHECK VALVE, RESIN</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>E21-0017</td>
<td>CHECK VALVE, CATALYST</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>E22-1410-K2</td>
<td>OUTLET ORINGS, PAIR</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>E22-1411-K2</td>
<td>INLET ORINGS, PAIR</td>
<td>1</td>
</tr>
</tbody>
</table>
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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