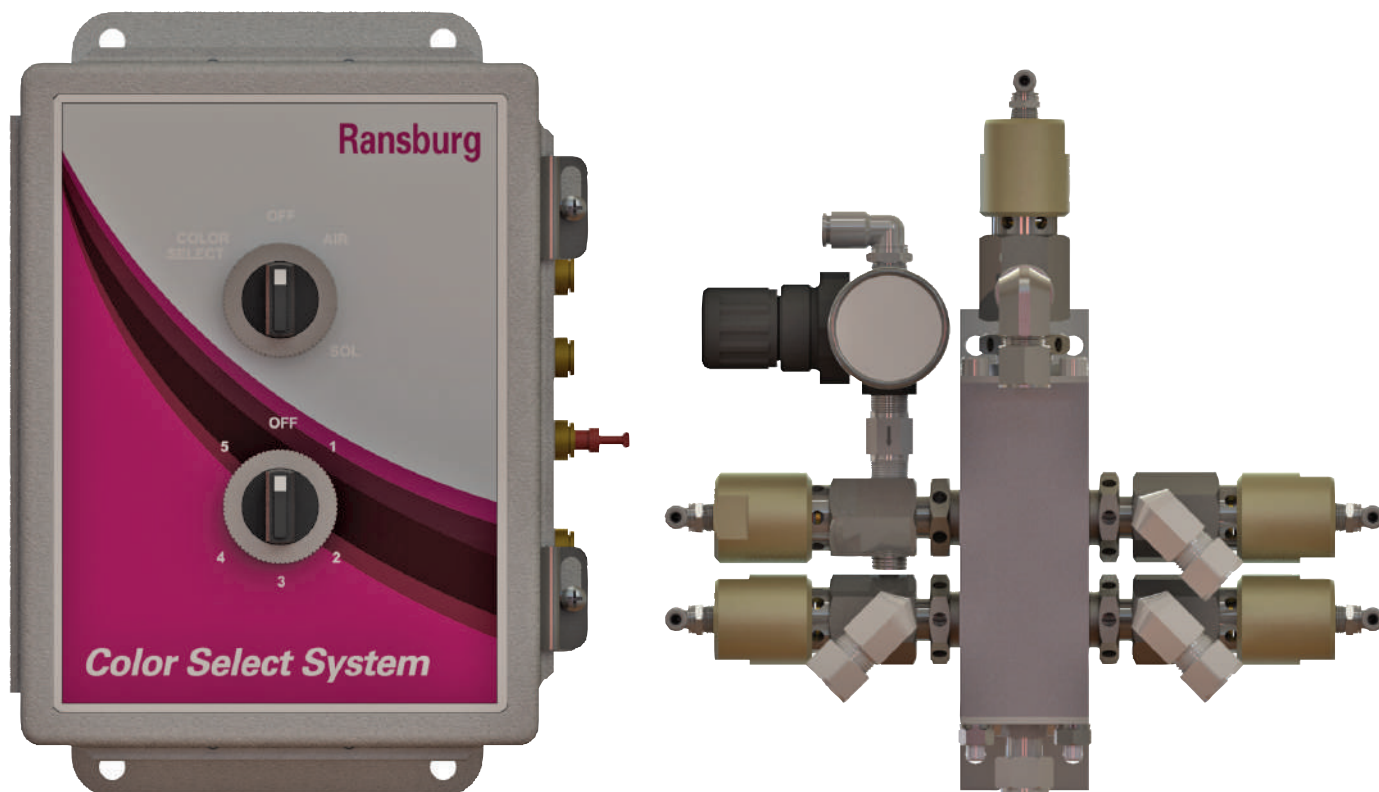


Ransburg Color Select System™



Model: CCV-6100

IMPORTANT: Before using this equipment, carefully read SAFETY PRECAUTIONS and all instructions in this manual. Keep this Service Manual for future reference.

NOTE: This manual has been changed from revision **CS-95-01-R3** to revision **CS-95-01-R4**. Reasons for this change are noted under “Manual Change Summary” inside the back cover of this manual.

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SAFETY

SAFETY PRECAUTIONS

Before operating, maintaining or servicing any Ransburg electrostatic coating system, read and understand all of the technical and safety literature for your Ransburg products. This manual contains information that is important for you to know and understand. This information relates to **USER SAFETY** and **PREVENTING EQUIPMENT PROBLEMS**. To help you recognize this information, we use the following symbols. Please pay particular attention to these sections.

WARNING

A **WARNING!** states information to alert you to a situation that might cause serious injury if instructions are not followed.

CAUTION

A **CAUTION!** states information that tells how to prevent damage to equipment or how to avoid a situation that might cause minor injury.

NOTE

A **NOTE** is information relevant to the procedure in progress.

While this manual lists standard specifications and service procedures, some minor deviations may be found between this literature and your equipment. Differences in local codes and plant requirements, material delivery requirements, etc., make such variations inevitable. Compare this manual with your system installation drawings and appropriate Ransburg equipment manuals to reconcile such differences.

Careful study and continued use of this manual will provide a better understanding of the equipment and process, resulting in more efficient operation, longer trouble-free service and faster, easier troubleshooting. If you do not have the manuals and safety literature for your Ransburg system, contact your local Ransburg representative or Ransburg.

WARNING

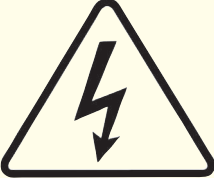
- The user **MUST** read and be familiar with the Safety Section in this manual and the Ransburg safety literature therein identified.
- This equipment is intended to be used by trained personnel **ONLY**.
- This manual **MUST** be read and thoroughly understood by **ALL** personnel who operate, clean or maintain this equipment! Special care should be taken to ensure that the **WARNINGS** and safety requirements for operating and servicing the equipment are followed. The user should be aware of and adhere to **ALL** local building and fire codes and ordinances as well as **NFPA-33 AND EN 50176 SAFETY STANDARDS, LATEST EDITION**, or applicable country safety standards, prior to installing, operating, and/or servicing this equipment.

WARNING

- The hazards shown on the following pages may occur during the normal use of this equipment.

AREA Tells where hazards may occur.	HAZARD Tells what the hazard is.	SAFEGUARDS Tells how to avoid the hazard.
Spray Area 	Fire Hazard Improper or inadequate operation and maintenance procedures will cause a fire hazard. Protection against inadvertent arcing that is capable of causing fire or explosion is lost if any safety interlocks are disabled during operation. Frequent Power Supply or Controller shutdown indicates a problem in the system requiring correction.	Fire extinguishing equipment must be present in the spray area and tested periodically. Spray areas must be kept clean to prevent the accumulation of combustible residues. Smoking must never be allowed in the spray area. The high voltage supplied to the atomizer must be turned off prior to cleaning, flushing or maintenance. Spray booth ventilation must be kept at the rates required by NFPA-33, OSHA, country, and local codes. In addition, ventilation must be maintained during cleaning operations using flammable or combustible solvents. Electrostatic arcing must be prevented. Safe sparking distance must be maintained between the parts being coated and the applicator. A distance of 1 inch for every 10KV of output voltage is required at all times. Test only in areas free of combustible material. Testing may require high voltage to be on, but only as instructed. Non-factory replacement parts or unauthorized equipment modifications may cause fire or injury. If used, the key switch bypass is intended for use only during setup operations. Production should never be done with safety interlocks disabled. The paint process and equipment should be set up and operated in accordance with NFPA-33, NEC, OSHA, local, country, and European Health and Safety Norms.

AREA Tells where hazards may occur.	HAZARD Tells what the hazard is.	SAFEGUARDS Tells how to avoid the hazard.
Spray Area 	Explosion Hazard Improper or inadequate operation and maintenance procedures will cause a fire hazard. Protection against inadvertent arcing that is capable of causing fire or explosion is lost if any safety interlocks are disabled during operation. Frequent Power Supply or Controller shutdown indicates a problem in the system requiring correction.	Electrostatic arcing must be prevented. Safe sparking distance must be maintained between the parts being coated and the applicator. A distance of 1 inch for every 10KV of output voltage is required at all times. Unless specifically approved for use in hazardous locations, all electrical equipment must be located outside Class I or II, Division 1 or 2 hazardous areas, in accordance with NFPA-33. Test only in areas free of flammable or combustible materials. The current overload sensitivity (if equipped) MUST be set as described in the corresponding section of the equipment manual. Protection against inadvertent arcing that is capable of causing fire or explosion is lost if the current overload sensitivity is not properly set. Frequent power supply shutdown indicates a problem in the system which requires correction. Always turn the control panel power off prior to flushing, cleaning, or working on spray system equipment. Before turning high voltage on, make sure no objects are within the safe sparking distance. Ensure that the control panel is interlocked with the ventilation system and conveyor in accordance with NFPA-33, EN 50176. Have fire extinguishing equipment readily available and tested periodically.
General Use and Maintenance 	Improper operation or maintenance may create a hazard. Personnel must be properly trained in the use of this equipment.	Personnel must be given training in accordance with the requirements of NFPA-33, EN 60079-0. Instructions and safety precautions must be read and understood prior to using this equipment. Comply with appropriate local, state, and national codes governing ventilation, fire protection, operation maintenance, and housekeeping. Reference OSHA, NFPA-33, EN Norms and your insurance company requirements.

AREA Tells where hazards may occur.	HAZARD Tells what the hazard is.	SAFEGUARDS Tells how to avoid the hazard.
Spray Area / High Voltage Equipment 	Electrical Discharge There is a high voltage device that can induce an electrical charge on ungrounded objects which is capable of igniting coating materials. Inadequate grounding will cause a spark hazard. A spark can ignite many coating materials and cause a fire or explosion.	Parts being sprayed and operators in the spray area must be properly grounded. Parts being sprayed must be supported on conveyors or hangers that are properly grounded. The resistance between the part and earth ground must not exceed 1 meg ohm. (Refer to NFPA-33.) Operators must be grounded. Rubber soled insulating shoes should not be worn. Grounding straps on wrists or legs may be used to assure adequate ground contact. Operators must not be wearing or carrying any ungrounded metal objects. When using an electrostatic handgun, operators must assure contact with the handle of the applicator via conductive gloves or gloves with the palm section cut out. NOTE: REFER TO NFPA-33 OR SPECIFIC COUNTRY SAFETY CODES REGARDING PROPER OPERATOR GROUNDING. All electrically conductive objects in the spray area, with the exception of those objects required by the process to be at high voltage, must be grounded. Grounded conductive flooring must be provided in the spray area. Always turn off the power supply prior to flushing, cleaning, or working on spray system equipment. Unless specifically approved for use in hazardous locations, all electrical equipment must be located outside Class I or II, Division 1 or 2 hazardous areas, in accordance with NFPA-33. Avoid installing an applicator into a fluid system where the solvent supply is ungrounded. Do not touch the applicator electrode while it is energized.

AREA Tells where hazards may occur.	HAZARD Tells what the hazard is.	SAFEGUARDS Tells how to avoid the hazard.
Electrical Equipment 	Electrical Discharge High voltage equipment is utilized in the process. Arcing in the vicinity of flammable or combustible materials may occur. Personnel are exposed to high voltage during operation and maintenance. Protection against inadvertent arcing that may cause a fire or explosion is lost if safety circuits are disabled during operation. Frequent power supply shut-down indicates a problem in the system which requires correction. An electrical arc can ignite coating materials and cause a fire or explosion.	Unless specifically approved for use in hazardous locations, the power supply, control cabinet, and all other electrical equipment must be located outside Class I or II, Division 1 and 2 hazardous areas in accordance with NFPA-33 and EN 50176. Turn the power supply OFF before working on the equipment. Test only in areas free of flammable or combustible material. Testing may require high voltage to be on, but only as instructed. Production should never be done with the safety circuits disabled. Before turning the high voltage on, make sure no objects are within the sparking distance.
Toxic Substances 	Chemical Hazard Certain materials may be harmful if inhaled, or if there is contact with the skin.	Follow the requirements of the Safety Data Sheet supplied by coating material manufacturer. Adequate exhaust must be provided to keep the air free of accumulations of toxic materials. Use a mask or respirator whenever there is a chance of inhaling sprayed materials. The mask must be compatible with the material being sprayed and its concentration. Equipment must be as prescribed by an industrial hygienist or safety expert, and be NIOSH approved.
Spray Area 	Explosion Hazard — Incompatible Materials Halogenated hydrocarbon solvents for example: methylene chloride and 1,1,1,-Trichloroethane are not chemically compatible with the aluminum that might be used in many system components. The chemical reaction caused by these solvents reacting with aluminum can become violent and lead to an equipment explosion.	Spray applicators require that aluminum inlet fittings be replaced with stainless steel. Aluminum is widely used in other spray application equipment - such as material pumps, regulators, triggering valves, etc. Halogenated hydrocarbon solvents must never be used with aluminum equipment during spraying, flushing, or cleaning. Read the label or data sheet for the material you intend to spray. If in doubt as to whether or not a coating or cleaning material is compatible, contact your coating supplier. Any other type of solvent may be used with aluminum equipment.

INTRODUCTION

DESCRIPTION

Color Select System

The CCV-6100 Color Select System is a manually controlled pneumatic color change system. The system consists of one or two color change boxes, a Color Change Valve Stack, and 1/4 inch OD poly tubing. The system allows for up to and including (15) different colors. Color changes are made using CCV-403-SS color change valves.

Valve

The CCV-403-SS is a pneumatically operated fluid valve designed for use in paint spray application systems. The valve can be used in a variety of other applications. The valve can be used separately for on/off control of paint to a spray atomizer; or, as part of a multi-color manifold assembly where colors can be quickly flushed and changed when a color change is desired.

All parts that come in contact with the fluid material are made of either stainless steel or PTFE that is impervious to most solvents. All other parts of the valve are made of brass, stainless steel, nickel-plated brass or hard coated (anodized) aluminum. The valve is constructed with a smooth, unobstructed fluid path that allows for faster flush cleaning, and also less pressure restriction. The valve body has two fluid inlet ports that allow fluid to circulate through the valve on a continuous basis. A plug is provided when this feature is not to be used. The double inlet ports also allow two valves to be used as a fluid on/off control and dump system.

Main Box

The main box consists of two six-position pneumatic switches. The top switch switches between off, air solvent and color. The color select position activates the bottom color switch and the secondary box (if more than five colors are to be used). The bottom switch is used to select colors 1 through 5. All internal plumbing is 5/32 nylon tubing. The external bulkhead fittings are for 1/4 inch O.D. tubing, including the supply air fitting.

When High Voltage is on, both Solvent Flush and Air Push are locked out so they cannot be triggered.

Secondary Box

The secondary box also consists of two six position pneumatic switches. The top switch selects color 6 through 10, the bottom 11 through 15. All internal and external tubing connections are the same sizes as the main box.

NOTE

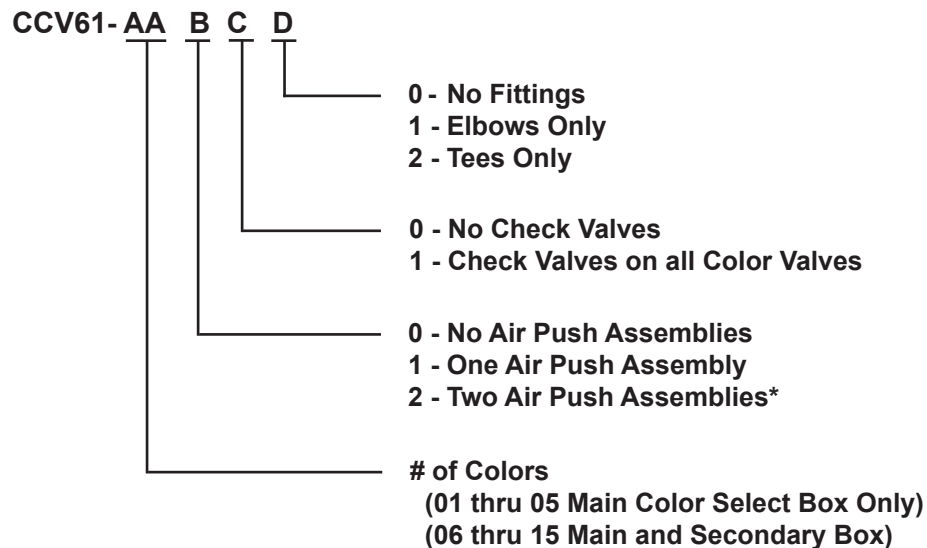
- When using the secondary box, all color select switches not in use must be set in the OFF position.

SPECIFICATIONS

Air Requirements:	70-100 psig(4.8-6.9 bar) Operating Pressure
Air Inlet / Outlet Connections:	1/4" OD Tubing
Fluid Pressure:	300 psig (20.6 bar) max.
Fluid Inlet:	1/4" NPT (F) X 2 ports (Fittings installed 3/8" OD tubing)
Fluid Outlets:	1/4" NPT (F) (Fitting installed a 3/8" OD tubing)
Fluid Flow:	3800 cc/min @ 47 psi pressure drop (Paint viscosity @ 700 centipoise) Varies according to material pressure and viscosity.
Valve Actuation Speed, On-Off Cycle:	55 cycles/min
Colors:	Up to and including 5 colors, main box only. Up to and including 15 colors total.

COLOR SELECT SYSTEM MODEL IDENTIFICATION

The Color Select System is available in many major configurations with several minor options as follows:



* If "B" is "2" (two Air Push Assemblies), the Secondary Color Select box must be used for colors 05 thru 15.
Part Number CCV61XX-XXX identifies the configuration of the Color Selection System.

CCV-61XX-XXX - COLOR SELECT SYSTEM

Includes the main box, top block, solvent valve and 1/4 inch O.D. poly tubing. The solvent valve is always supplied with a solvent proof check valve and a 3/8-inch ODT stainless steel female elbow for fluid inlet.

CCV-61(XX)-XXX - NUMBER OF COLOR VALVES

(Selection 00-15). These two numbers indicate the number of valves required for paint to the stack assembly. Also number of color select boxes.

CCV-61XX-(X)XX - AIR PUSH VALVES

(Selection 0, 1, 2). This number indicates the number of “air push” valves required. Each valve is supplied with a solvent proof check valve; gauge, regulator and 3/8-inch ODT brass push style fitting for air inlet. The air push is used to push out residual paint in the fluid supply line. This air is also pulsed on and off with the solvent to create a scrubbing action. In the event that two different pressures are required, two air push valves can be supplied.

CCV-61XX-X(X)X - CHECK VALVES

(Selection 0, 1). This number indicates whether check valves are supplied on the paint inlet valves. Check valves are used to prevent materials from contaminating each other in the event that two valves would be opened at the same time. NOTE: Check valves will always be supplied on solvent and air valves, regardless of selection made here.

CCV-61XX-XX(X) - FLUID INLET FITTINGS

(Selection 0, 1, 2). This number indicates whether no fitting, elbows, or tees are supplied for the fluid inlet to the color valves. Elbows are typically utilized for fluid inlet. Tees are used for circulating the paint at the color valve. The elbows and tees are stainless steel and accept a 3/8-inch OD fluid line.

All valves are supplied with a brass push style swivel elbow for the air pilot. This fitting accepts a 1/4-inch OD tube.

CCV-51XX COLOR VALVE STACK ASSEMBLY

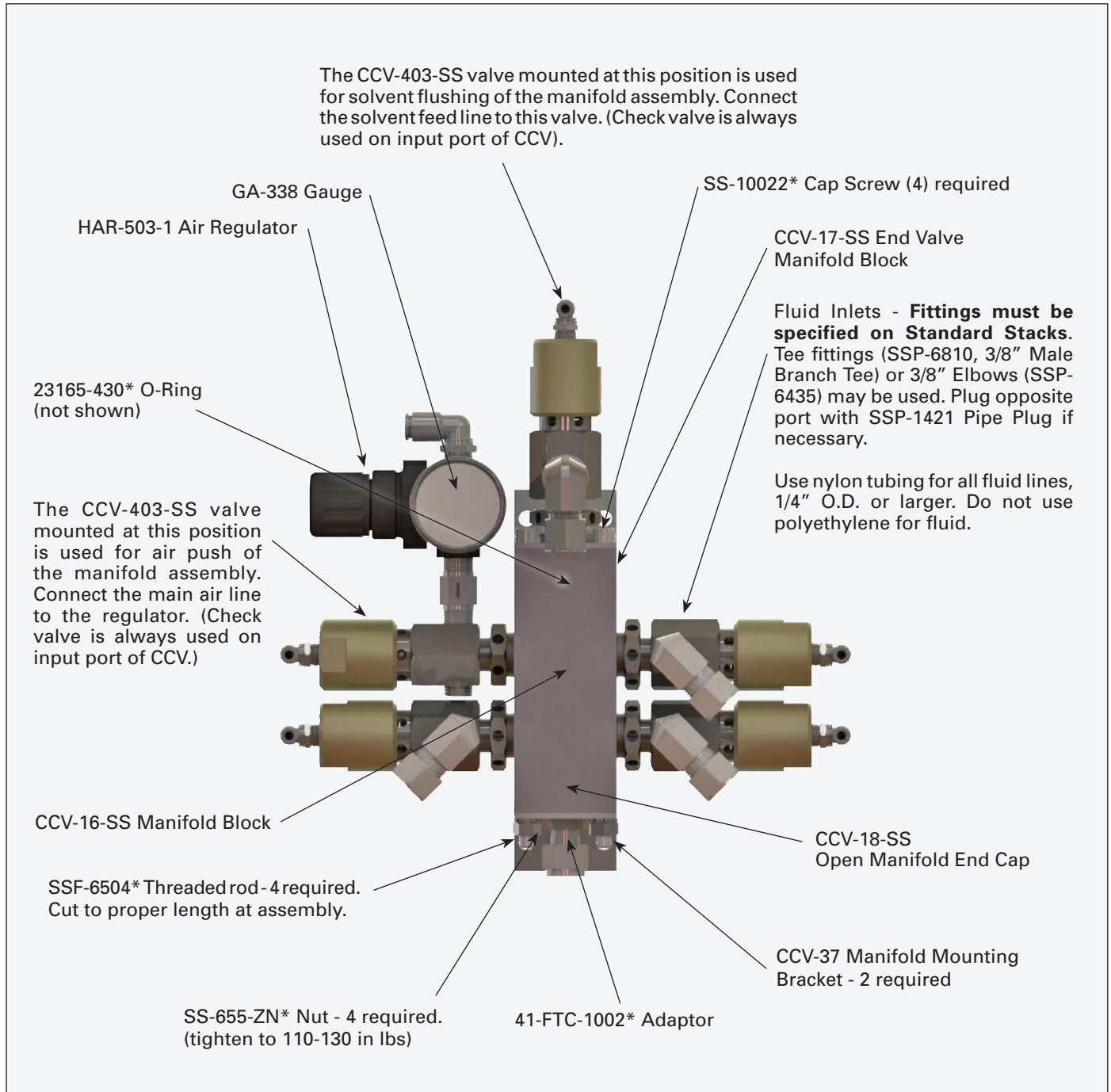


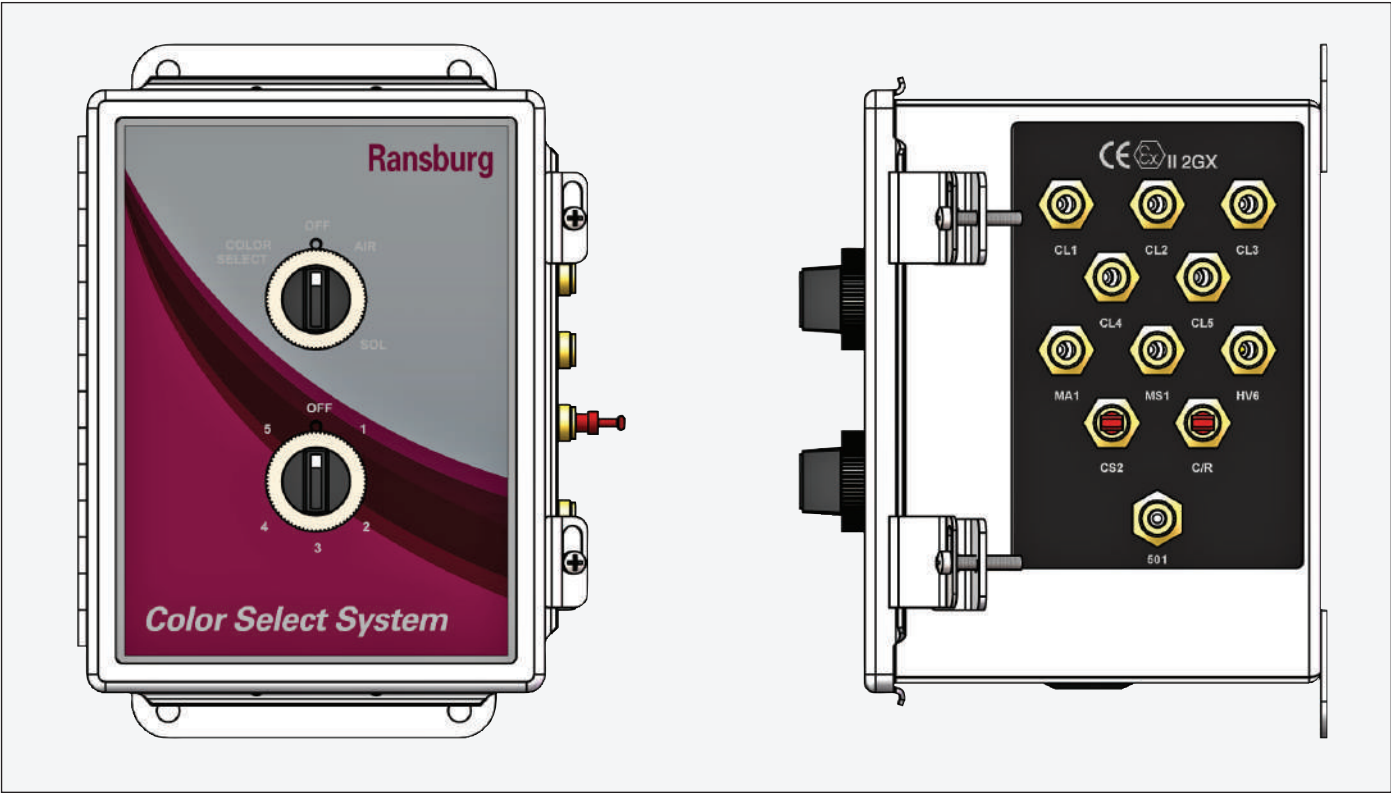
Figure 1: Typical Color Change Stack

Refer to Service Manual LN-9113-06 for additional details on the CCV-5100 color valve stack assembly, and CS-15-01 for additional details on the CCV-403-SS color change valves.

NOTE

► Check valves are always used on input ports of Air Push and Solvent CCV's. They are optional for Color CCV's.

LPNE5002-00 COLOR SELECT BOX (MASTER)



LPNE5003-00 COLOR SELECT BOX (ADD-ON)



SELECTOR SWITCH FUNCTIONS

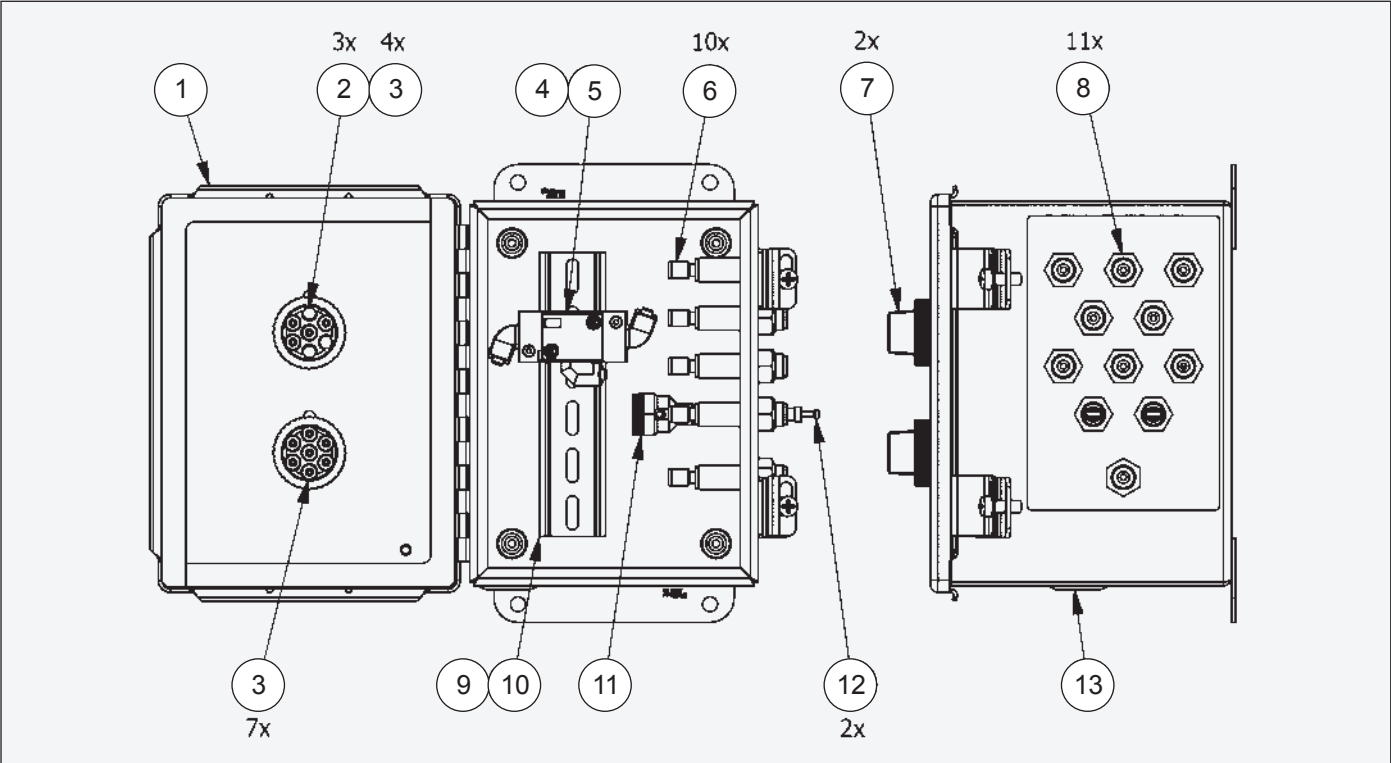
Position	Description	LPNE5002-00	LPNE5003-00
Color Select	Supplies air to all color select switches	X	
Off	Stops all air flow	X	
Air	Supplies air to Air Push Valve	X	
Sol	Supplies air to Solvent Push Valve	X	
Color - Off	Off position for individual Color Select Valves (activates next valve)	X	
Color - 1 - 5	Supplies air to corresponding Color Select Valve	X	
Color - Off	Off position for individual Color Select Valves (activates next valve)		X
Color - 6 - 10	Supplies air to corresponding Color Select Valve		X
Color - Off	Off position for individual Color Select Valves (activates next valve)		X
Color - 7 - 15	Supplies air to corresponding Color Select Valve		X

OUTPUT PORT FUNCTIONS

All ports are for 1/4 inch OD tubing.

Position	Description	LPNE5002-00	LPNE5003-00
501	Main Air Supply Inlet	X	
CS2	Supply Air for Add-on Selector Box	X	X
C/R	Run Input on Operator Panel of Flush Box	X	
MA1	Activation Air for Air Push Valve	X	
MS1	Activation air for solvent flush valve	X	
HV6	High voltage on Signal Air (to pneumatic control panel)	X	
CL1 - CL5	Activation air for corresponding individual Color Select Valves	X	
CL6 - CL15	Activation air for corresponding individual Color Select Valves		X

LPNE5002-00 Color Select Box (Master)



LPNE5003-00 Color Select Box (Add-on)

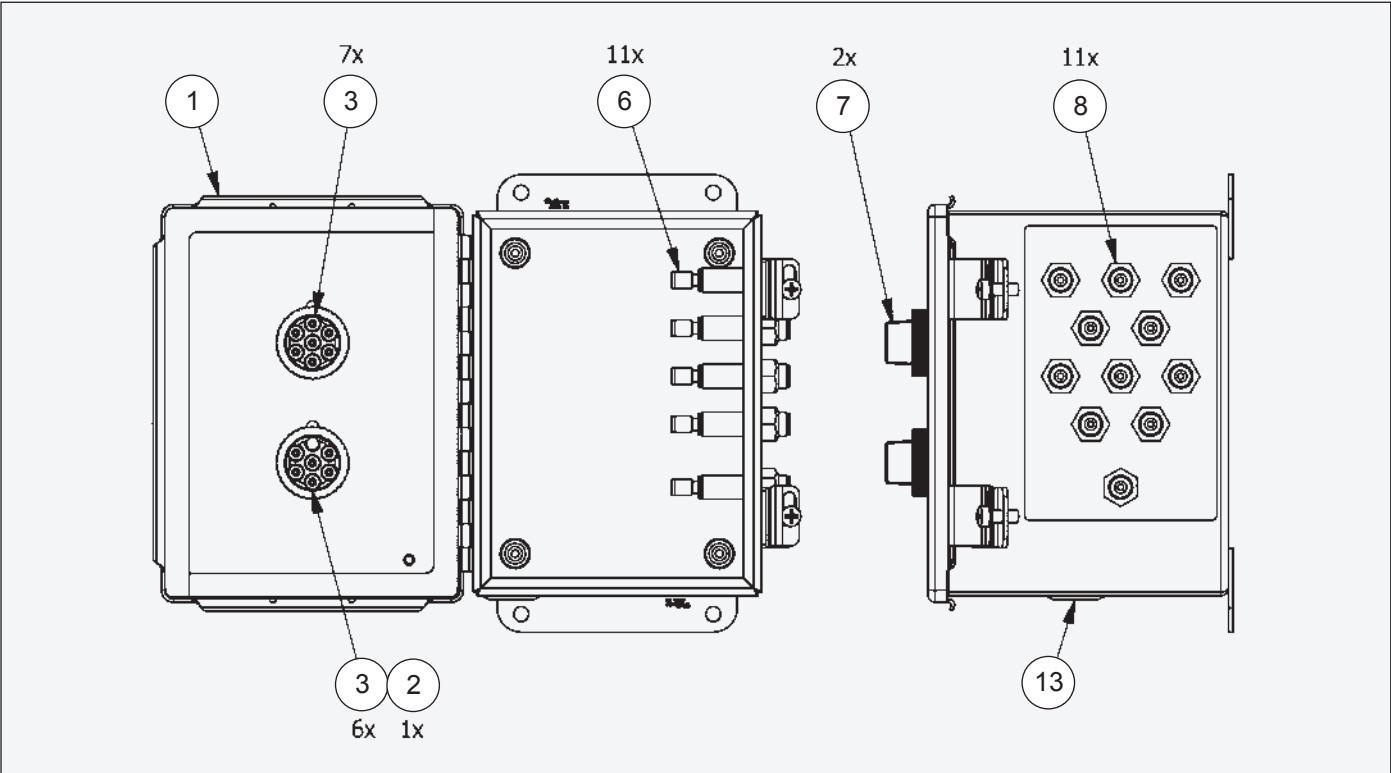


Figure 4: Color Select Box

COLOR SELECT BOXES

Item #	Position	Description	LPNE5002-00	LPNE5003-00
1	LPNE0005-01	Color Select Enclosure	1	1
2	41-FP-1011	Plug, #10-32	3	1
3	41-FTP-1023	Connector Fitting 5/32 Tube x 10-32	11	13
4	41-BAS-1000	Logic Base	1	-
5	41-VAP-1004	Air Piloted Valve, "NOT" Logic (No)	1	-
6	41-FTP-1015	Tube Reducer, 5/32" x 1/4"	10	11
7	41-VMC-1002	Manual Control Valve (3 Way, 6 Position)	2	2
8	41-FBH-1000	Bulkhead Fitting, 1/4" Tube	11	11
9	LS0079	DIN Rail, 6" Length	1	-
10	LSMM0051-00	Foam Mounting Tape, 1" Width	1	-
11	41-FTP-1050	"Y" Tube Fitting, 1/4" Male x 5/32" Females	1	-
12	41-PLG-1001	Tube Plug, 1/4"	2	-
13	SSH-7739	Sheet Metal Plug, 7/8" Dia.	1	1

INSTALLATION

Mounting

The Color Select Box and the Color Change Valve stack have mounting brackets for easy mounting. The Color Select Boxes may be mounted using the pattern supplied in this manual (See Figure 10). Mounting hardware can be any type 1/4-inch bolt with washers. A minimum of six inches should be left between the air outlets on the box and the Color Change Stack, to allow room for the air tubing to be run later.

Air Tubing Connections

For the proper connection locations on the Color Select Box, refer to Figure 2. The main supply air must be dried and filtered. Using Figure 2, and the “Installation Diagram,” Figure 9, the air tubing can be run to the color Change Stack. The high voltage signal air, “HV6,” may be used only if a pneumatic control panel is being used. In this case, HV6 is connected directly to HV6 on the pneumatic control panel.

Coating Material Connections

Number the coating materials to correspond to the numbers of the Color Select System. 3/8-inch OD tubing is to be used to connect the Color Change Valves to the coating material.

Connect the tubing from material (#1) to CCV (#1), tubing from material (#2) to CCV (#2), and so on, matching materials with the proper CCV.

Solvent Connection

The solvent is connected in the same way as the Coating Material, using 3/8-inch OD tubing.

NOTE

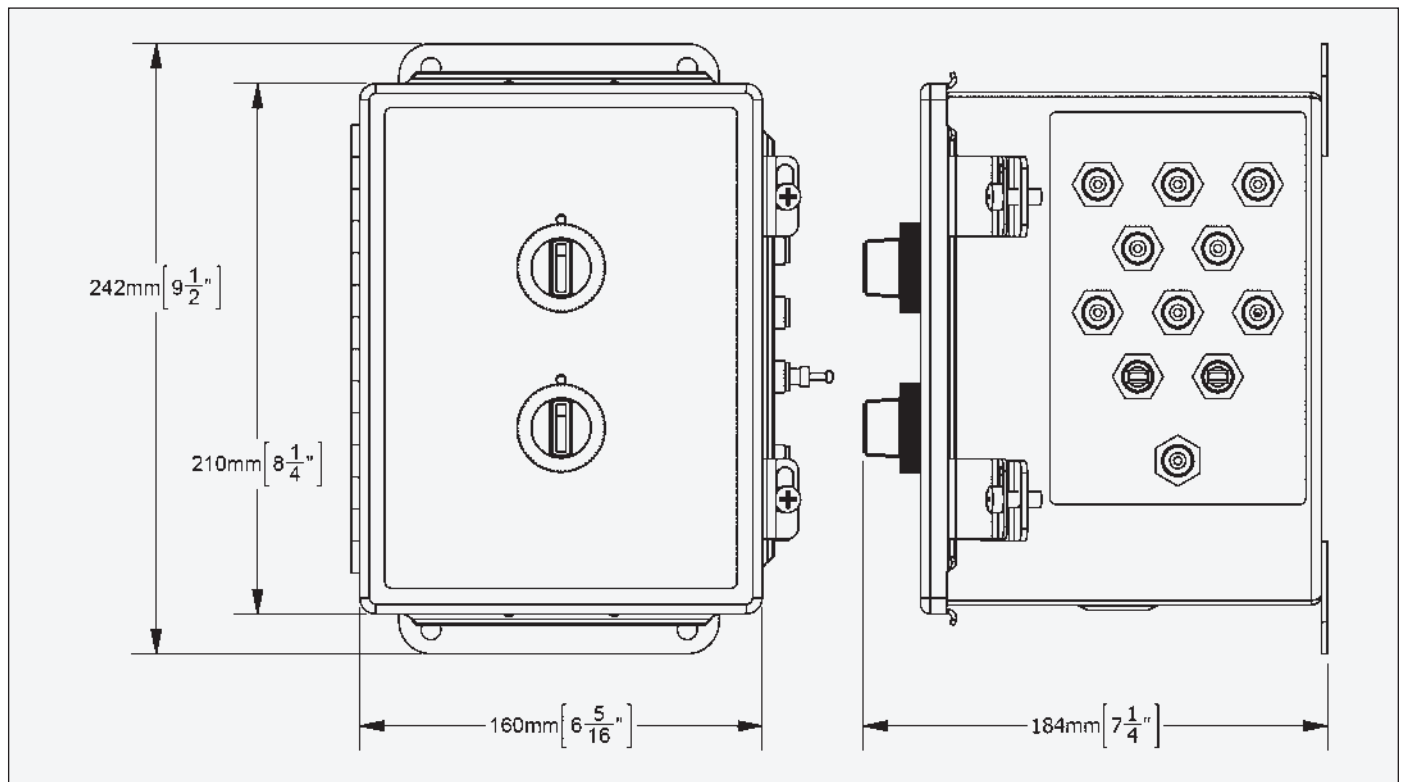
- The solvent must be pressurized for the Color Select System to function properly.

Installation of the Color Select System is made simple by its ability to be placed in a Class I, Division I environment. The color change valves can be mounted as close to the paint or the applicator as is desired. The color select box can be mounted right on the wall of the spray booth, allowing for fast color changes, since the operator does not have to leave the booth.

NOTE

- The coating material must be pressurized for the Color Select System to function properly.

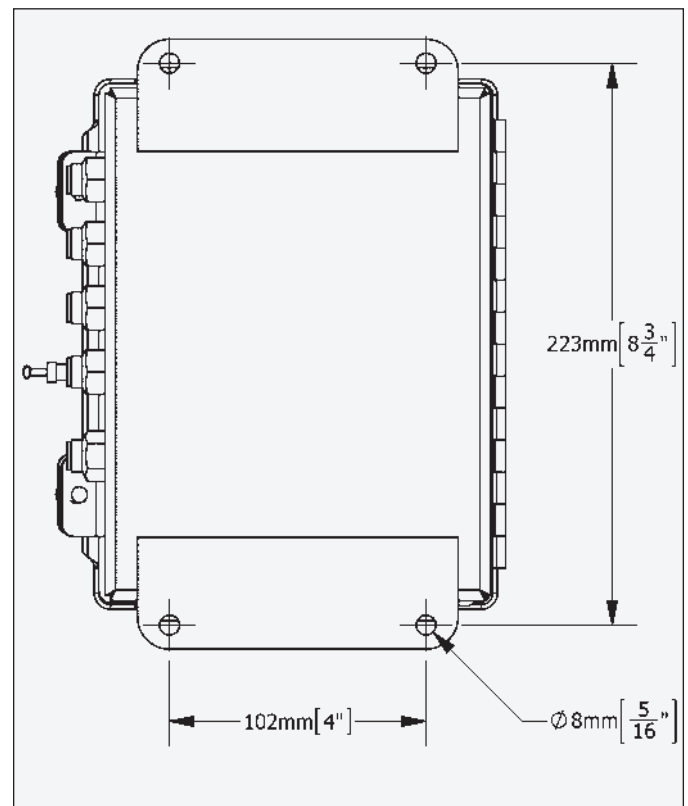
Color Select Boxes Dimensions



The Color Select Box have mounting brackets for easy mounting. The Color Select Boxes may be mounted using the pattern at right.

Mounting hardware can be any type of a 6mm [1/4-inch] bolt with washers. A minimum of 150mm [6 in] should be left between the air outlets on the box and the Color Change Stack , to allow room for the air tubing to be run later.

Mounting Dimensions



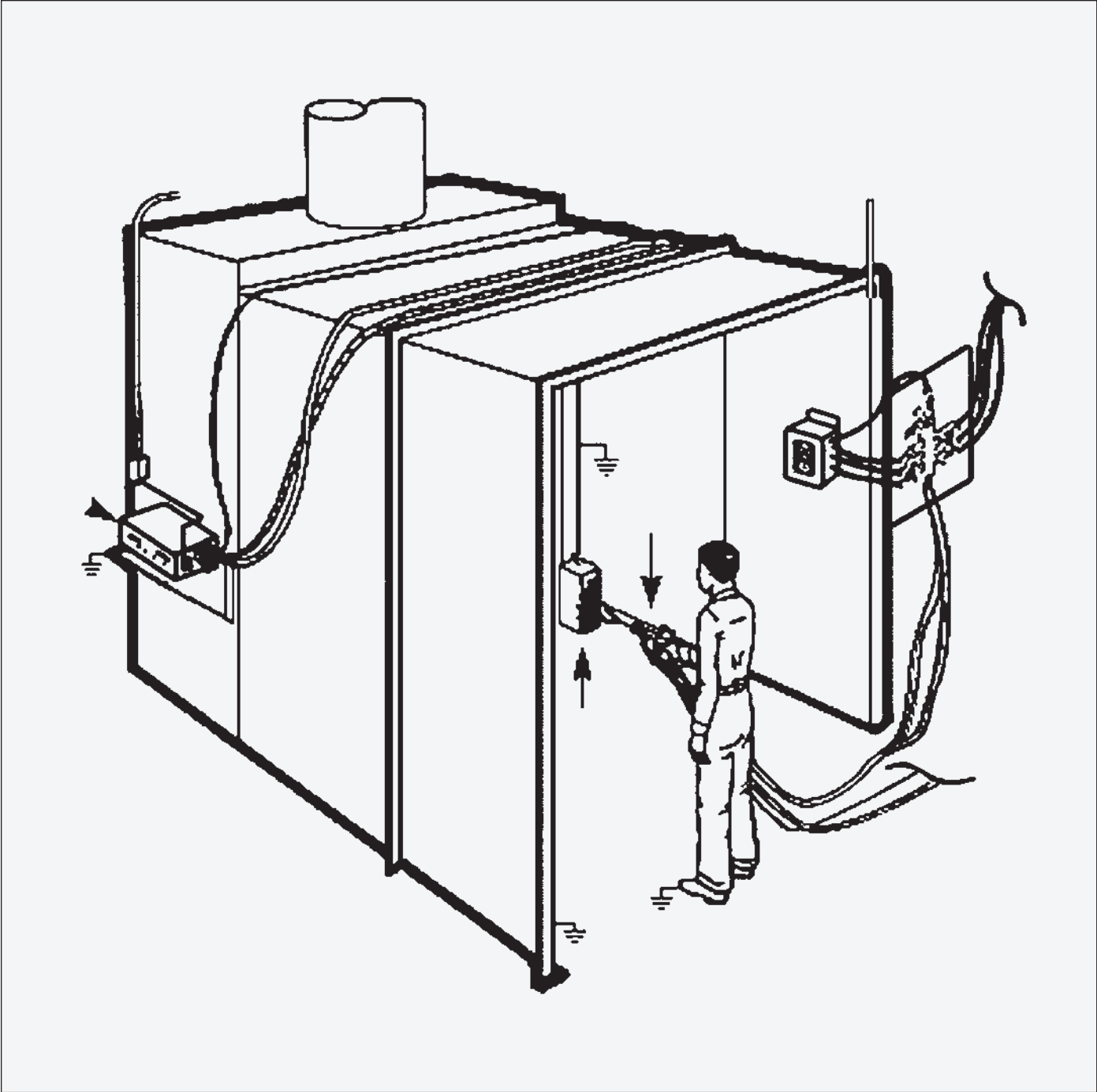


Figure 8: Typical Color Select System Installation

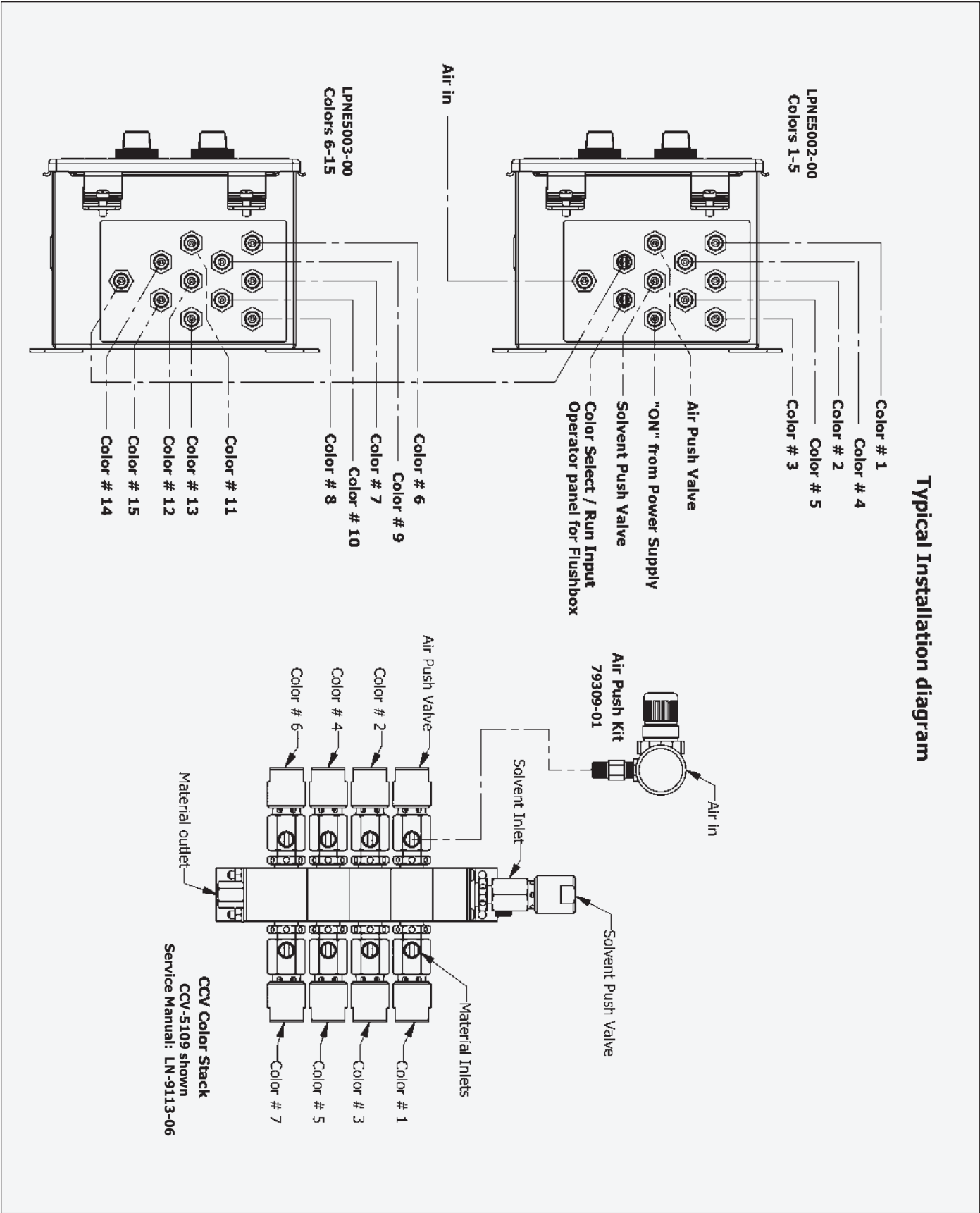


Figure 9: Installation Diagram

OPERATION

The flow of the coating material is controlled by selecting the proper color number on the Color Select Boxes. If two Color Select Boxes are used, all Color Select Switches not in use must be set to the OFF position. After the proper color number is selected, the coating material is activated by selecting the “Color Select” position.

NOTE

➤ To select a new “Color”, the main switch must be moved from the “COLOR SELECT” to the “OFF” position.

To flush the coating material from the coating system, select the “SOL.” position, which will activate the solvent. The “AIR” position can be used to blow the coating material or the solvent out of the coating system.

Installation and Operation Overview

The coating material is supplied from the users pressurized system that may be a pressure tank, paint circulating system or other suitable pressure paint supply system. 3/8-inch OD fluid tubing is connected between the users paint supply and the CCV.

An air signal supplied to the CCV activates the paint being delivered to the applicator. The air signal is controlled by the Color Select Boxes.

1/4-inch OD air tubing is used to connect the control air between the Color Select Boxes and the CCV.

MAINTENANCE

COLOR CHANGE VALVES

Cleaning

The valve and associated parts through which fluid passes should be cleaned after use by flushing with an appropriate solvent. While flushing, the valve should be triggered several times in order to flush particles from the seat and stem seal areas.

Wear Parts

Wear parts include the poppet seat, stem, valve needle seal, and piston cup. All of these parts are PTFE except for the stem that is stainless steel. Wear parts should be inspected and replaced on a regular maintenance schedule. The frequency of replacement depends upon cycle rate and material abrasiveness. Valves should be inspected after six months usage. If any parts are worn, or if paint leakage is evident, replace all wear parts with valve repair kit KK-4841.

Valve Removal

1. Disconnect air and fluid lines from valve.
2. Insert the Spanner Tool (CCV-7) into one of the holes in the spanner nut and rotate counterclockwise (as viewed from the rear air inlet fitting in valve). If the Spanner Tool is not available, a 1-1/6-inch open-end wrench can also be used to loosen the spanner nut.

COLOR SELECT BOXES

Air Switch Removal

Disconnect all air lines to the air switch.

While holding the front of the air switch, loosen nut on rear of air switch and remove nut.

Remove air switch.

Air Switch Reassembly

Insert air switch into front panel of the Color Select box.

Align air switch so selector is in the "OFF" position.

Install nut on rear of air switch, making sure to hold the front of the air switch firmly in place while tightening the nut.

Air Pilot Valve Removal

Disconnect all air lines to the pilot valve.

Loosen two (2) screws on top of pilot valve. Do not remove screws entirely. Remove pilot valve.

Air Pilot Valve Reassembly

Align pilot valve alignment pin with base, and place pilot valve on base.

Tighten two (2) screws on top of pilot valve.

TROUBLESHOOTING GUIDE

General Problem	Possible Cause	Solution
DELIVERY		
Fluid	No main supply air	Turn supply air on or reconnect to box
	No color selected	Select a color
	Wrong color selected	Select proper color
	No paint connected to CCV	Reconnect paint or select proper color
	Paint not pressurized	Check users supply
Air (To CCV)	No main supply air	Turn supply air on or reconnect to box
	No color selected	Select a color
	Wrong color selected	Select proper color
	Loose connection	Tighten connection
	Defective air switch	Replace defective switch
LEAKAGE		
Air	Hole in tubing	Replace worn tubing
	Loose connection	Tighten connection
Air (Insided Color Select Box)	Loose connection	Tighten connections
	Hole in air tubing	Replace air tubing
	Bad switch	Replace defective switch
Fluid	Loose connection	Tighten connections
	Worn fluid tubing	Replace worn fluid tubing
DEFICIENT DELIVERY		
Air	Insufficient supply air	Check air regulator
Fluid	Low supply pressure	Increase supply pressure
	Clogged or obstructed fluid lines	Clean or replace
	Clogged or obstructed CCV stack	Clean as required

MANUAL CHANGE SUMMARY

CS-95-01-R3 - Replaces CS-95-01.2 with the following changes:

No.	Change Description	Page(s)
1.	Update manual to new template	All Pages
2.	New Image	Cover
3.	Update Safety section	4-8
4.	New text and image	12
5.	New images and tables	13-16
6.	Remove unneeded page	13
7.	Add new text and images	18
8.	New image	20
9.	Delete text and consolidate into one page	22
10.	Remove unneeded pages	21-22

CS-95-01-R4 - Replaces CS-95-01-R3 with the following changes:

Branding changed to Binks.

WARRANTY POLICY

This product is covered by Binks materials and workmanship limited warranty. The use of any parts or accessories, from a source other than Binks, will void all warranties. For specific warranty information please contact Binks is a global leader in innovative finishing technologies.
Binks reserves the right to modify equipment specifications without prior notice.

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Europe, Africa Middle East, India	Tel: +44 (0)1202 571 111 Fax: +44 (0)1202 573 488	
China	Tel: +8621-3373 0108 Fax: +8621-3373 0308	
Japan	Tel: +81 45 785 6421 Fax: +81 45 785 6517	
Australia	Tel: +61 (0) 2 8525 7555 Fax: +61 (0) 2 8525 7575	

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