

# Color Change Kit

310656C

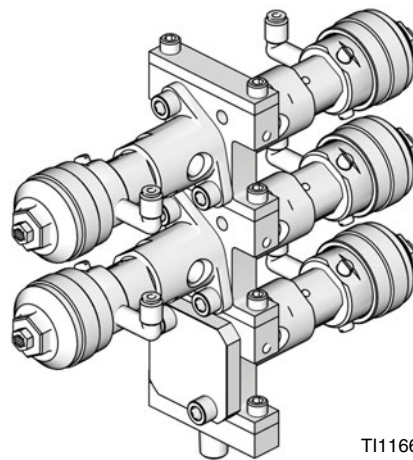
EN

For use with ProMix™ II proportioner, to change colors or distribute industrial paints and coatings or fluids. For professional use only.



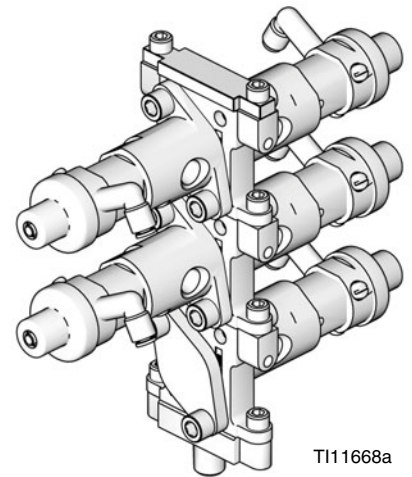
## Important Safety Instructions

Read warnings in the ProMix™ II Operation manual. See page 8 and 10 for part numbers and maximum working pressures.



T111665a

High Pressure Color Change




T111668a

Low Pressure Color Change

# Installation

**WARNING**



To reduce the risk of serious injury, including skin injection, relieve pressure before installing the kit. Follow the **Pressure Relief Procedure** in the ProMix™ II Operation or Service manual.

## Color Change Valves

1. Relieve pressure as instructed in the ProMix™ II Operation or Service manual.
2. Close main air shutoff valve on air supply line and on ProMix™ II.
3. Shut off ProMix™ II power.
4. Loosen the 4 screws (A), then remove the Smart Fluid Panel cover (B). FIG. 1.

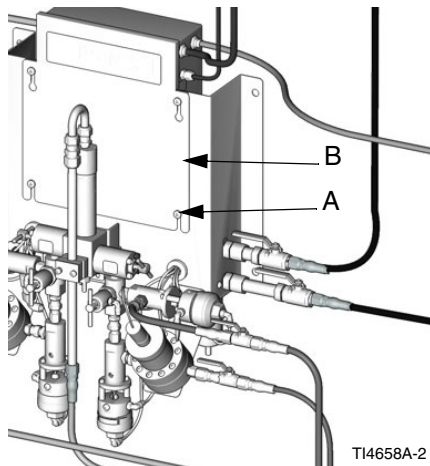


FIG. 1

5. Slide the panel (C) until its bottom slots (D) align with the top screw holes and secure the box in place with the 2 screws. FIG. 2.

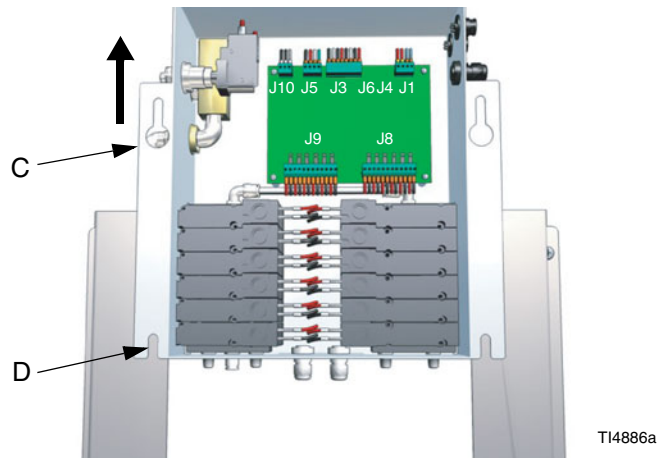
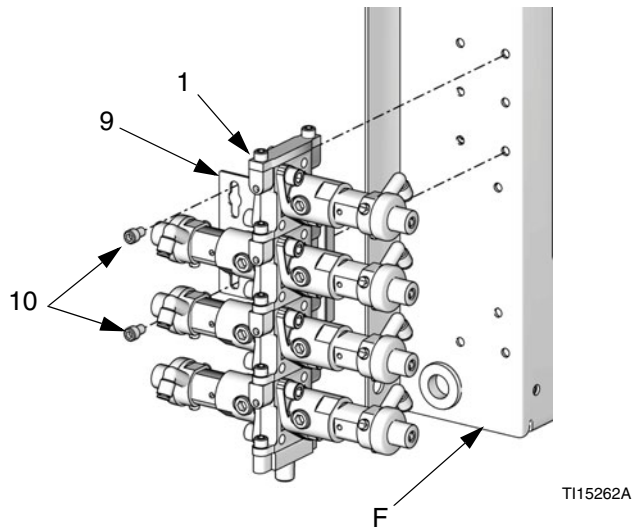


FIG. 2

6. Use screws (10) included with kit to mount the bracket (9) to the color change stack (1). Use two more screws (10) to mount color change stack (1) to fluid panel wall (F), using existing screw holes. FIG. 3.



Low Pressure Color Change Stack Shown

FIG. 3

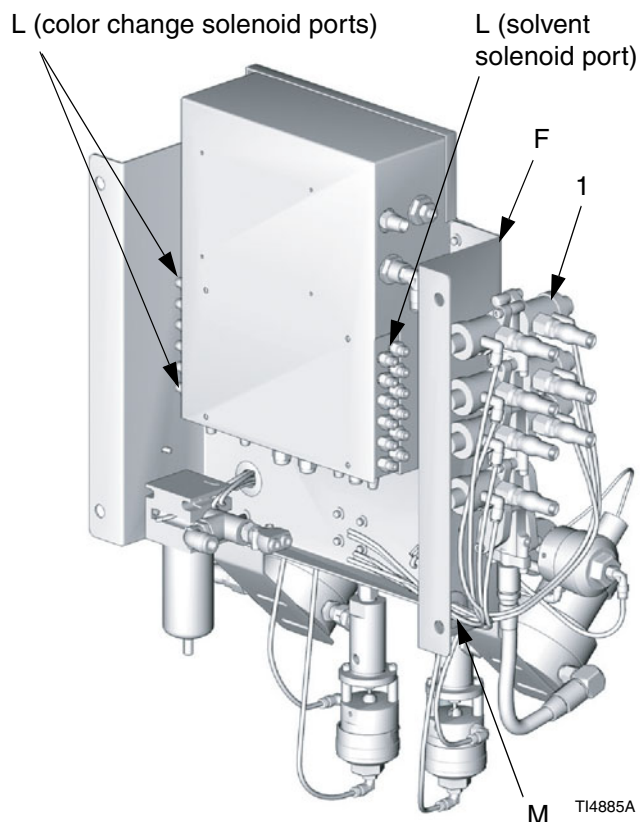


FIG. 4


4. Connect air lines between color change valves (1) and solenoid valve ports (L), routing them through port (M). FIG. 4. Refer to the **Pneumatic Diagram**, page 6 and the pneumatic label inside the fluid panel.

Solenoid	Actuates
<i>Standard</i>	
1	Dispense Valve A
2	Dispense Valve B
3	Air Purge Valve A
4	Solvent Purge Valve B
<i>Optional</i>	
5	Gun Flush Box Pilot Valve
6	Color Change Solvent Valve
7	Color Change Valve 1
8	Color Change Valve 2
9	Color Change Valve 3
10	Color Change Valve 4
11	Color Change Valve 5
12	Color Change Valve 6


## Solenoids

### CAUTION

To avoid damaging circuit board when servicing, wear grounding strap on wrist and ground appropriately.

 The Smart Fluid Panel has a minimum of 4 solenoids. The number of solenoids in the kit depends on how many color change valves were included. See solenoid table at right.

1. Remove the plugs from the left solenoid manifold to install solenoid #6 for the color change solvent valve. Install the solenoid (11).
2. Install the kit solenoid assembly (H) into the fluid panel (C).
3. Connect solenoid wire connector (J8) to the control board (K).

 Solenoid wires are polarized (red +, black -). Refer to **Electrical Schematic**, page 7.

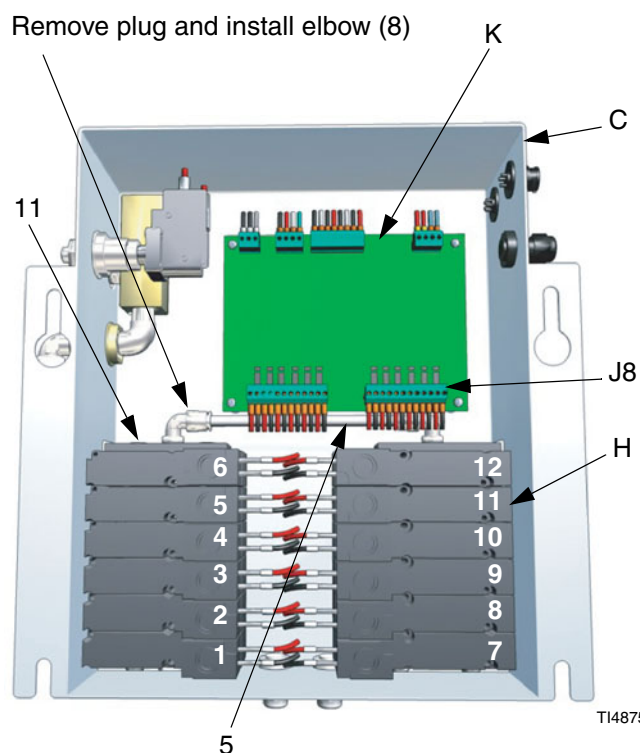



FIG. 5

## Fluid Lines

**WARNING**



To reduce the risk of injury, including skin injection, you must install a shutoff valve (P) between each fluid supply line and the fluid manifold assembly. FIG. 6. Use the valves to shut off fluid during maintenance and service.

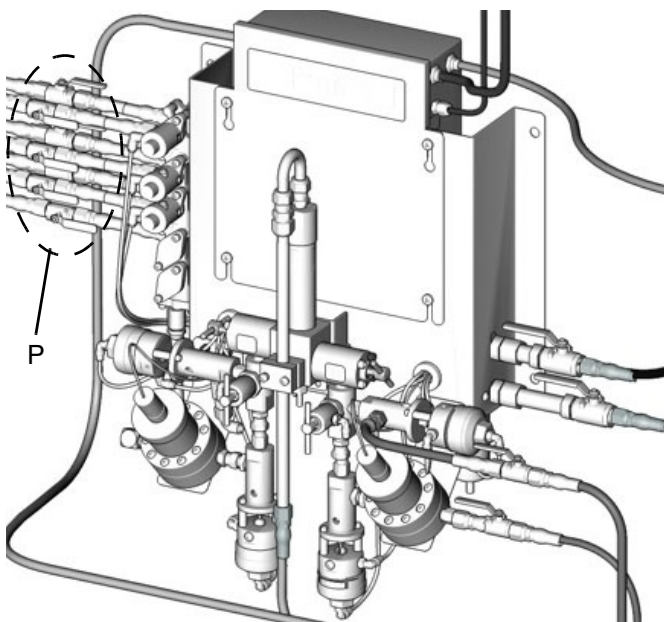


FIG. 6

1. Connect a solvent supply line to the color change valve (N), marked “CC SOLVENT”. FIG. 7.
2. Connect component A supply lines to the color change valve stack (1) inlets. FIG. 7. The color number is marked on the valve air supply line.



### Paint Recirculating System

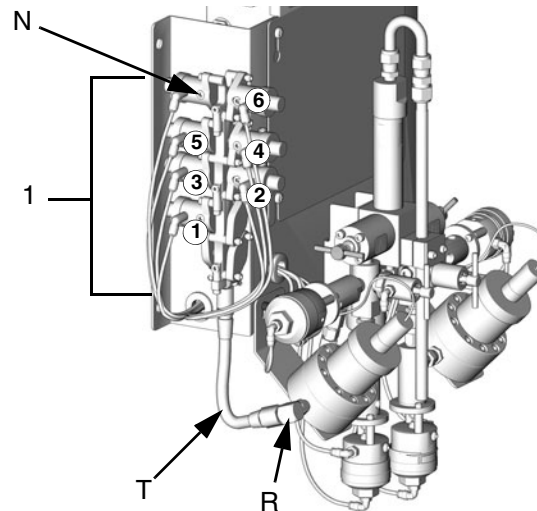
The color change valves have two fluid ports for each individual valve. If you are recirculating paint:

1. Remove the color change valve stack from the fluid panel and mount it separately.
2. Plumb the valves in one port and out the other. Another option is to use a tee fitting to recirculate.

**CAUTION**

Verify that all unused fluid ports on the color change valve stack are plugged before operation. An open port will leak fluid.

3. Connect component A supply line (T) from the color change manifold to the component A flow meter inlet (R). FIG. 7.



T14810A

FIG. 7

## EEPROM

Orient the EEPROM (U25) so its notch lines up with the notch (W) marked on the fluid control board and install in the board. The EEPROM leads may need to be bent slightly inward to fit in the socket.

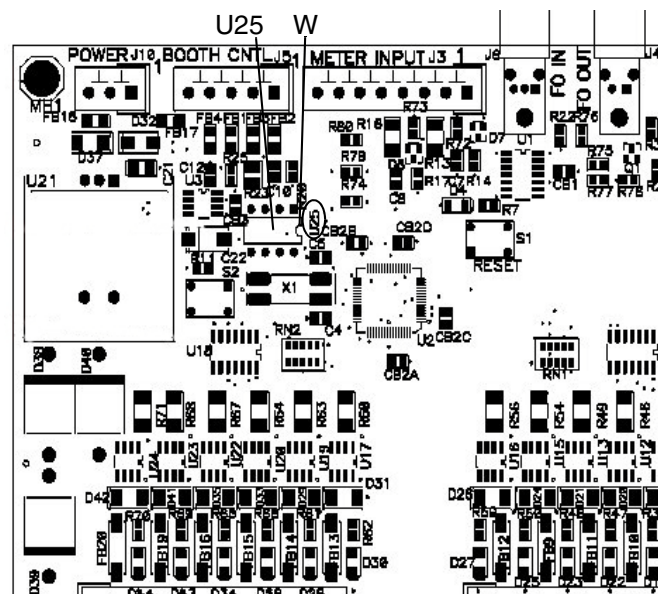
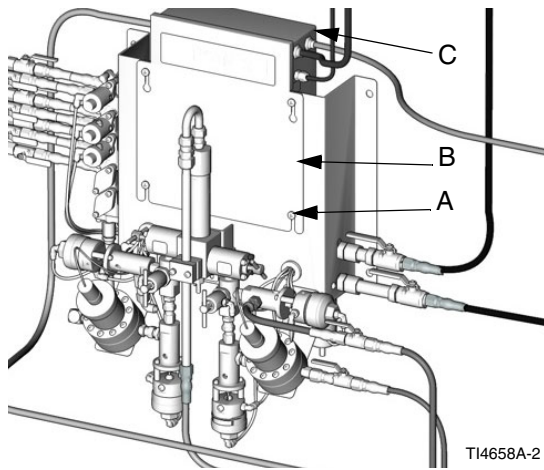


FIG. 8

## Reassemble Fluid Panel

1. Remove screws and slide the panel (C) back into place.
2. Secure cover (B) with the 4 screws (A). FIG. 9.



**FIG. 9**

## Service

See the following manuals to service color change valves.

Manual	Description
312783	Color Change Valve Stacks
312782	Color Change Valves

# ProMix™ II Schematics

## Pneumatic Diagram

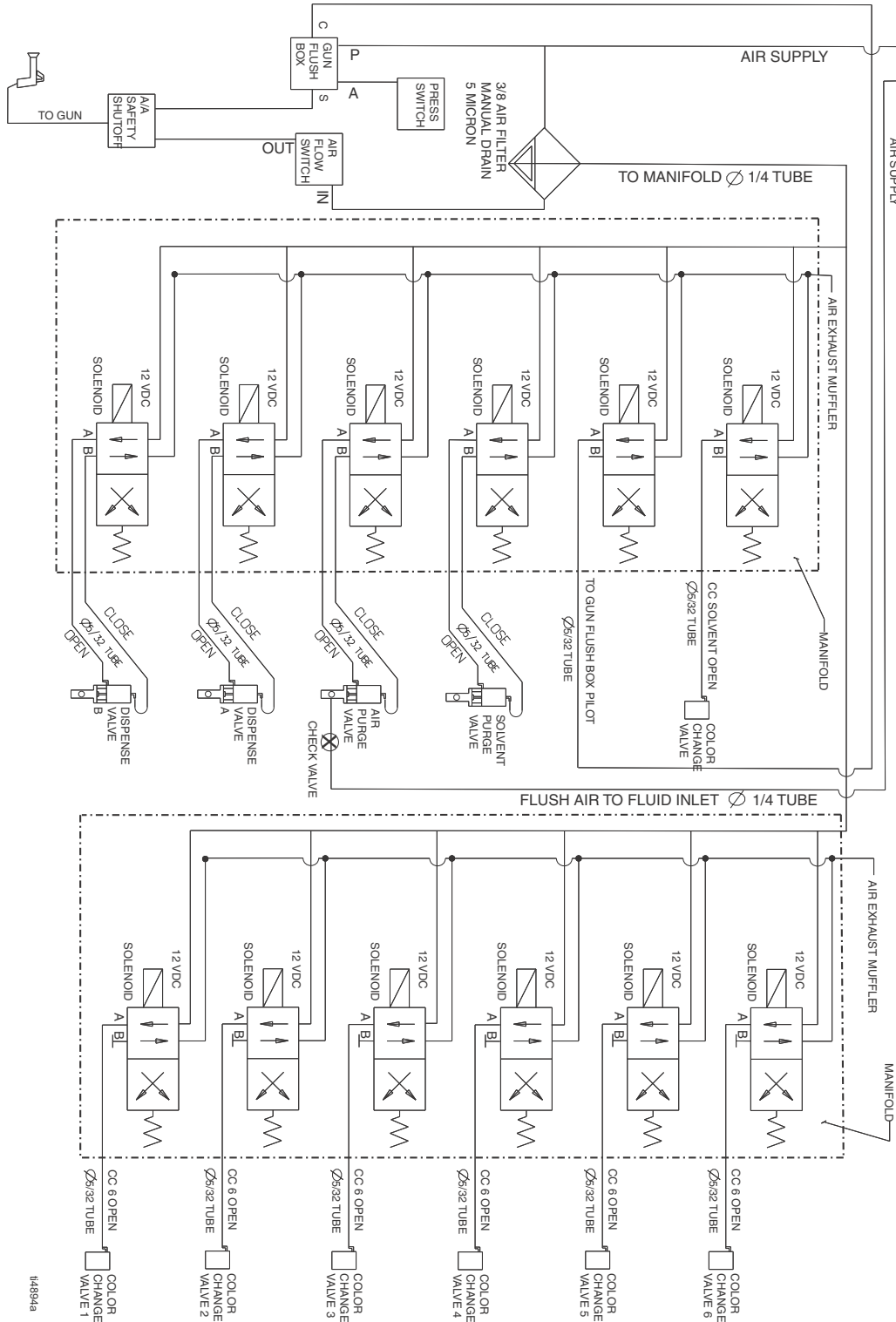
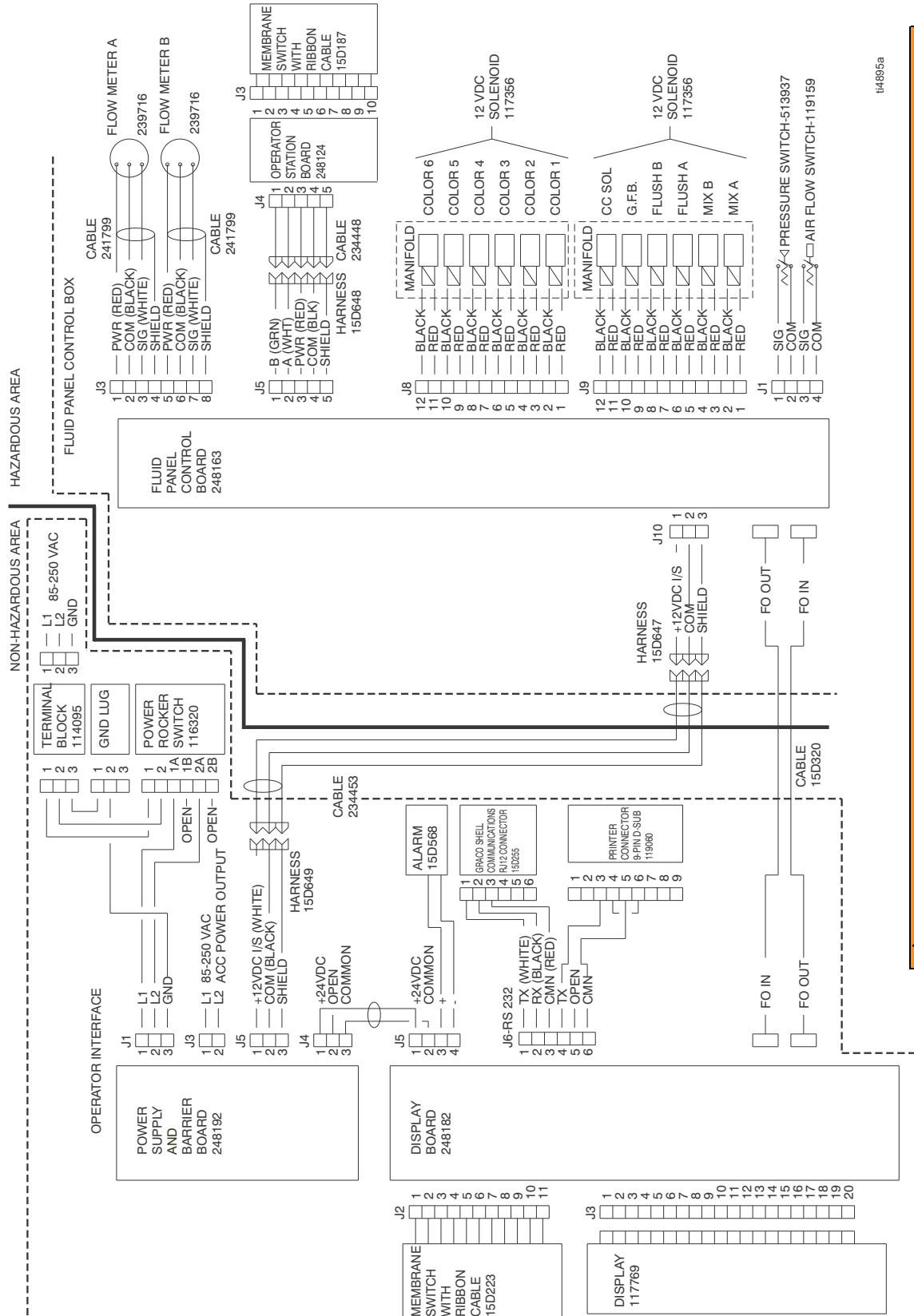


FIG. 10

T14894A

# Electrical Schematic



114895a

**WARNING**

Do not install equipment approved only for non-hazardous location in a hazardous area. Substitution of components may impair intrinsic safety.

Fig. 11

TI4895A

# Parts

## Low Pressure Color Change Kits

300 psi (2.1 MPa, 21 bar) Maximum Working Pressure

**Part No. 234568, Series B, 2 color**

**Part No. 234569, Series B, 4 color**

**Part No. 234570, Series B, 6 color**

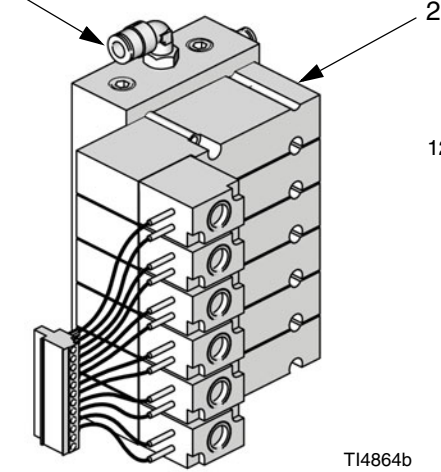
Ref. No.	Part No.	Description	Qty
1	15V812	VALVE STACK, low pressure; for 234568; see manual 312783	1
	15V813	VALVE STACK, low pressure; for 234569; see manual 312783	1
	256293	VALVE STACK, low pressure; for 234570; see manual 312783	1
2	253502	SOLENOID STACK; for 234568	1
	253503	SOLENOID STACK; for 234569	1
	253504	SOLENOID STACK; for 234570	1
3	24N345	HOSE; ptfе; 1/4 npsm(fbe); 1/4 in. (6 mm) ID; 1.5 ft (0.46 m)	1
4	114669	SCREW, machine; to mount solenoid manifold to electrical box; M5 x 0.8 x 10	2
5†*	n/a	TUBE, nylon; 1/4 in. (6 mm) OD; 0.5 ft (15 cm)	1
6†*	598095	TUBE, nylon; 5/32 in. (4 mm) OD; 13 ft (3.96 m)	1
7†	15D826	EEPROM, with software	1
8	166866	ELBOW (see FIG. 5 on page 3); 1/4-18 npt (m x f)	1
9†	15U927	BRACKET, color change (see FIG. 3 on page 2)	1
10†	C19798	SCREW, cap, socket-hd; for mounting bracket (see FIG. 3 on page 2); 1/4-20 x 3/8 in. (10 mm)	4
11	117356	SOLENOID, 12 VDC (IS); see FIG. 5 on page 3 for location	1
12	114263	CONNECTOR; 1/8 npt x 5/32 in. (4 mm) OD tube	1
13	112512	FERRULE, wire, orange	2

† Not shown.

\* Order length needed.

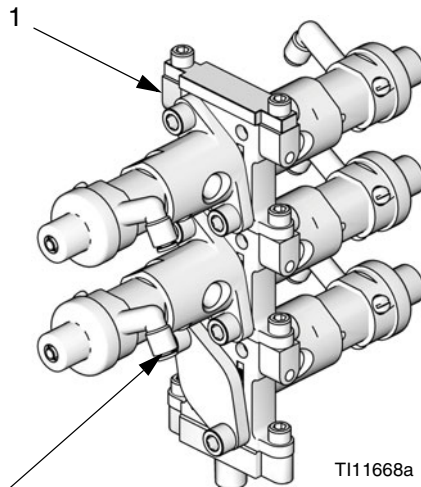
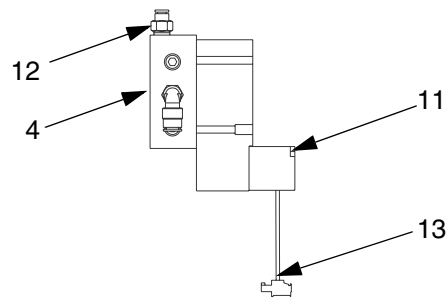
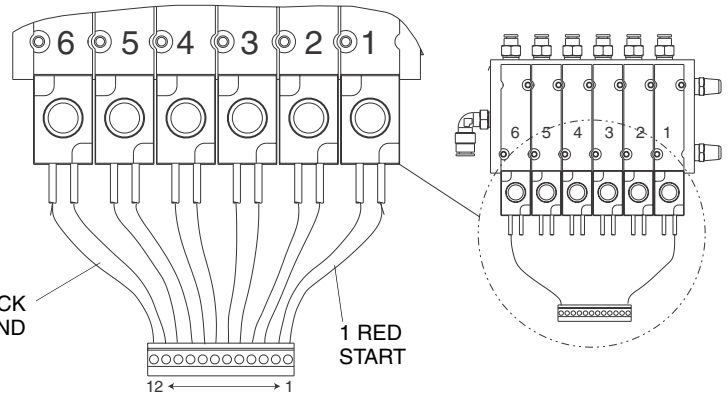


Connect solenoid air supply tube (5) here



253504 Solenoid Stack Shown  
(for Kit 234570)

TI4864b



Connect valve open tube (6) here

Connect hose (3) here

15V813 Valve Stack Shown  
(for Kit 234569)

### Low Pressure Color Change

## High Pressure Color Change Kits

3000 psi (21 MPa, 207 bar) Maximum Working Pressure

**Part No. 234572, Series B, 2 color**

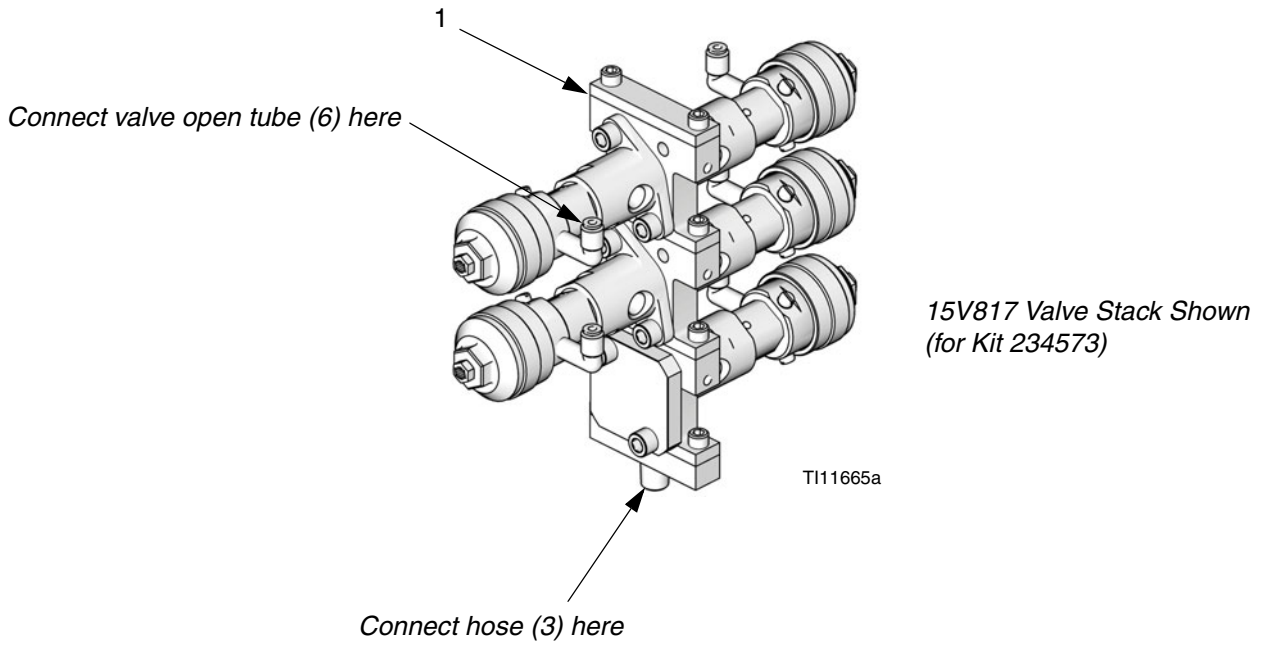
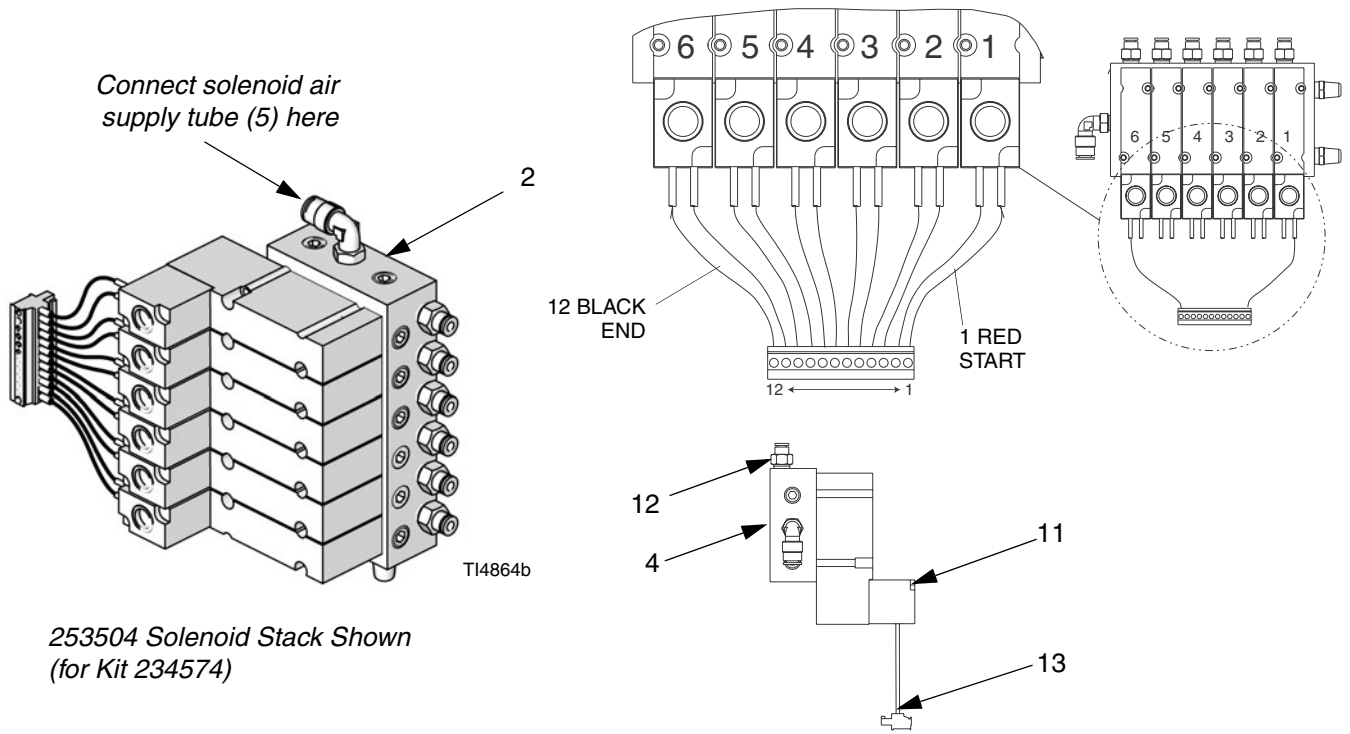
**Part No. 234573, Series B, 4 color**

**Part No. 234574, Series B, 6 color**

Ref. No.	Part No.	Description	Qty
1	15V816	VALVE STACK, high pressure; for 234572; see manual 312783	1
	15V817	VALVE STACK, high pressure; for 234573; see manual 312783	1
	256342	VALVE STACK, low pressure; for 234574; see manual 312783	1
2	253502	SOLENOID STACK; for 234568	1
	253503	SOLENOID STACK; for 234569	1
	253504	SOLENOID STACK; for 234570	1
3	24N345	HOSE; ptfе; 1/4 npsm(fbe); 1/4 in. (6 mm) ID; 1.5 ft (0.46 m)	1
4	114669	SCREW, machine; to mount solenoid manifold to electrical box; M5 x 0.8 x 10	2
5†*	n/a	TUBE, nylon; 1/4 in. (6 mm) OD; 0.5 ft (15 cm)	1
6†*	598095	TUBE, nylon; 5/32 in. (4 mm) OD; 13 ft (3.96 m)	1
7†	15D826	EEPROM, with software	1
8	166866	ELBOW (see FIG. 5 on page 3); 1/4-18 npt (m x f)	1
9†	15U927	BRACKET, color change (see FIG. 3 on page 2)	1
10†	C19798	SCREW, cap, socket-hd; for mounting bracket (see FIG. 3 on page 2); 1/4-20 x 3/8 in. (10 mm)	4
11	117356	SOLENOID, 12 VDC (IS); see FIG. 5 on page 3 for location	1
12	114263	CONNECTOR; 1/8 npt x 5/32 in. (4 mm) OD tube	1
13	112512	FERRULE, wire, orange	2

\* Order length needed.

† Not shown.



### High Pressure Color Change

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Original instructions. This manual contains English. MM 310656

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