

Color Change Kit

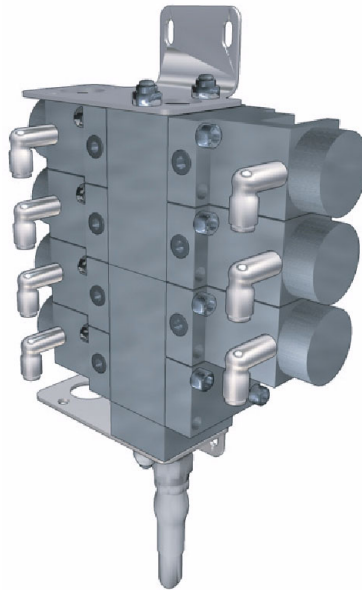
310656 Rev.A

For use with ProMix™ II proportioner



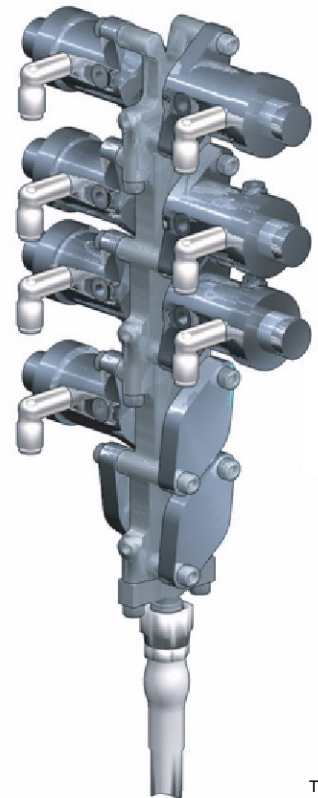
Read warnings in the ProMix™ II Operation manual.

See page 8 and 10 for part numbers and maximum working pressures.



TI4880A

High Pressure Color Change



TI4864A

Low Pressure Color Change

PROVEN QUALITY. LEADING TECHNOLOGY.

Installation

⚠ WARNING

To reduce the risk of serious injury, including fluid 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.

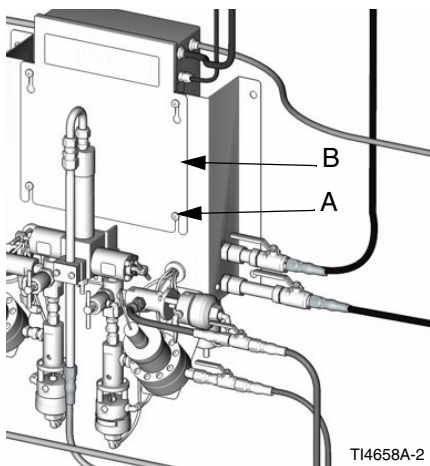


FIG. 1

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.

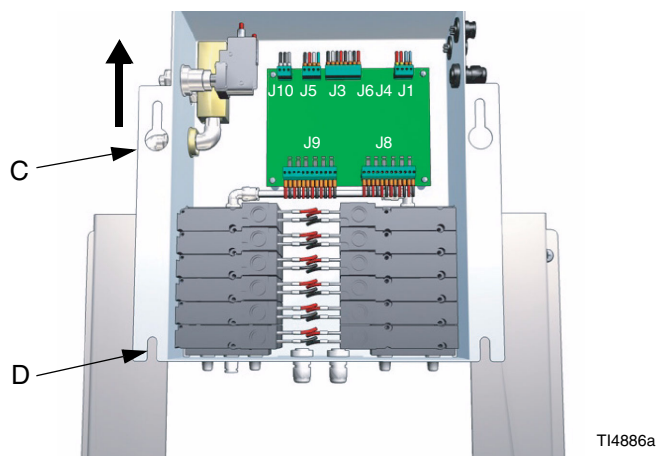


FIG. 2

6. Using screws (G) included with kit and existing screw holes, mount color change assembly (E) to fluid panel wall (F). FIG. 3 or FIG. 4.

Low Pressure Color Change: Put the mounting screws through the inside of the panel wall to secure the color valve manifold to the outside wall (F).

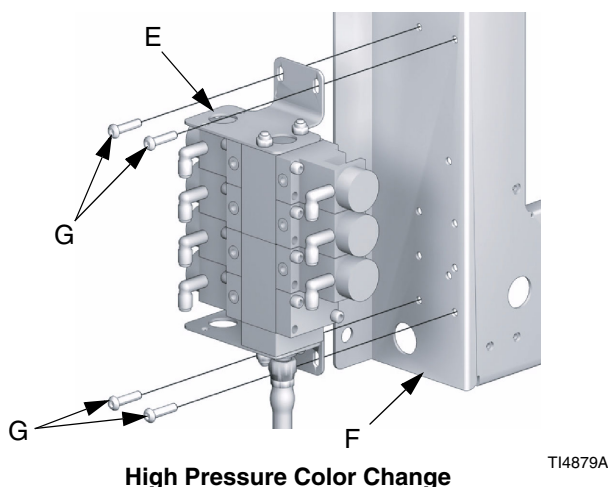


FIG. 3

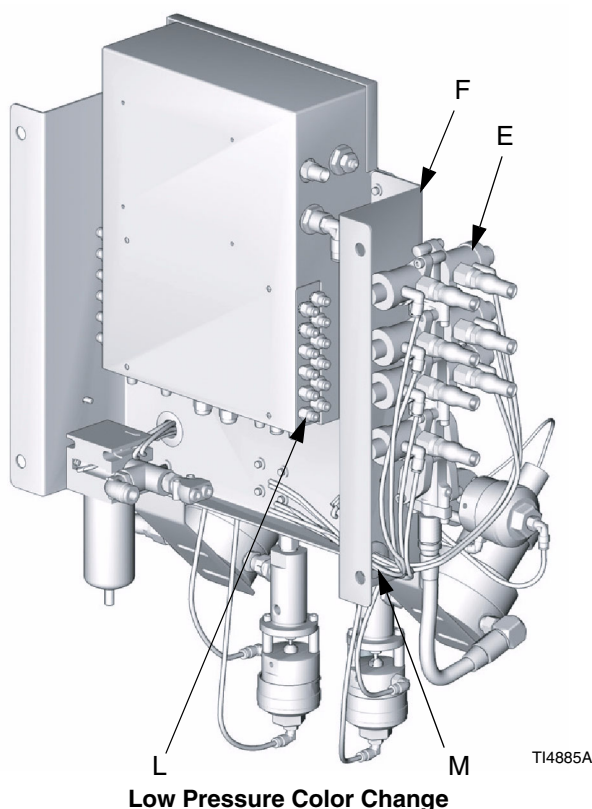


FIG. 4

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.
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.

4. Connect air lines between color change valves (E) 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

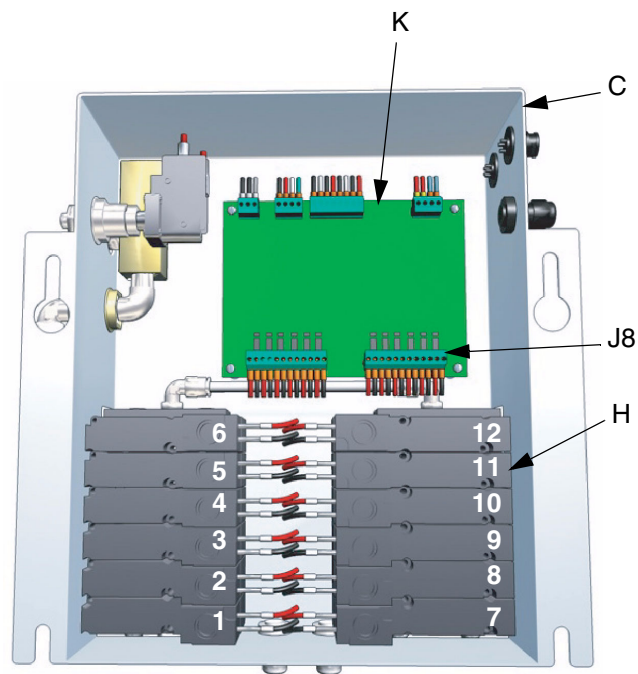


FIG. 5

TI4875

Fluid Lines

WARNING

To reduce the risk of injury, including fluid 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.

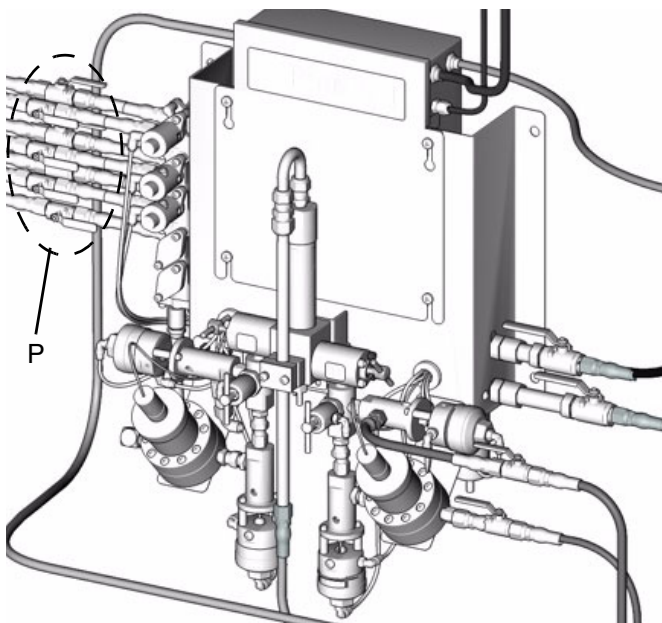


FIG. 6

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 (E) inlets. FIG. 7. The color number is marked on the valve air supply line.



Paint Recirculating System

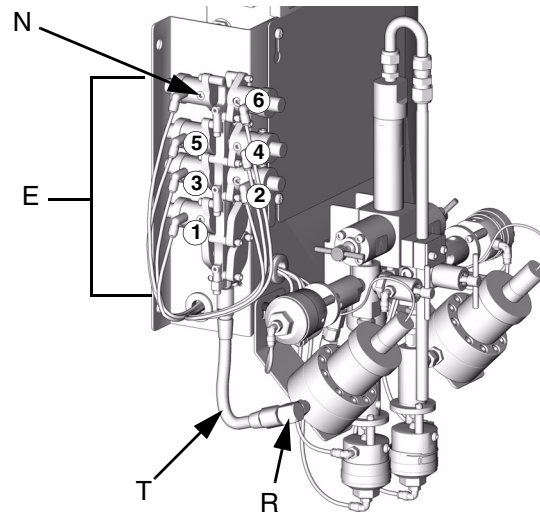
The color change valves have two fluid ports for each individual valve. If you are recirculating paint:

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 it in the board. The EEPROM leads may need to be bent slightly inward to fit in the socket.

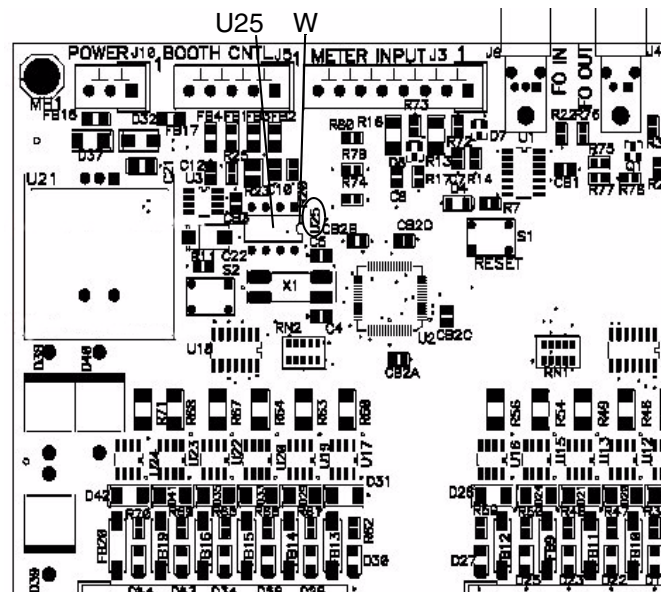


FIG. 8

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.

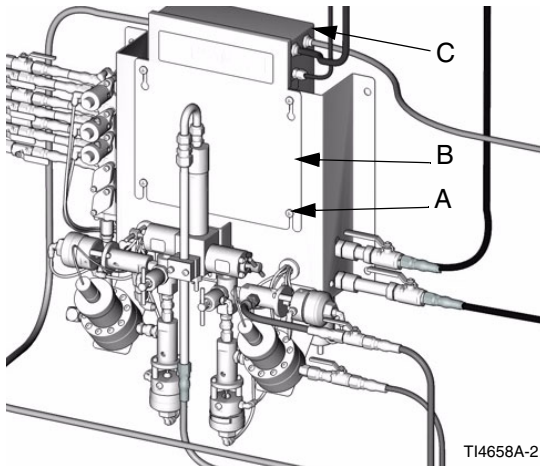


FIG. 9

Service

See the following manuals to service color change valves.

Manual	Description
307731	Color Change Valve Assembly, low pressure
307941	Color Change Valve, low pressure
308977	Color Change Valve Assembly, high pressure
308291	Color Change Valve, high pressure

ProMix™ II Schematics

Pneumatic Diagram

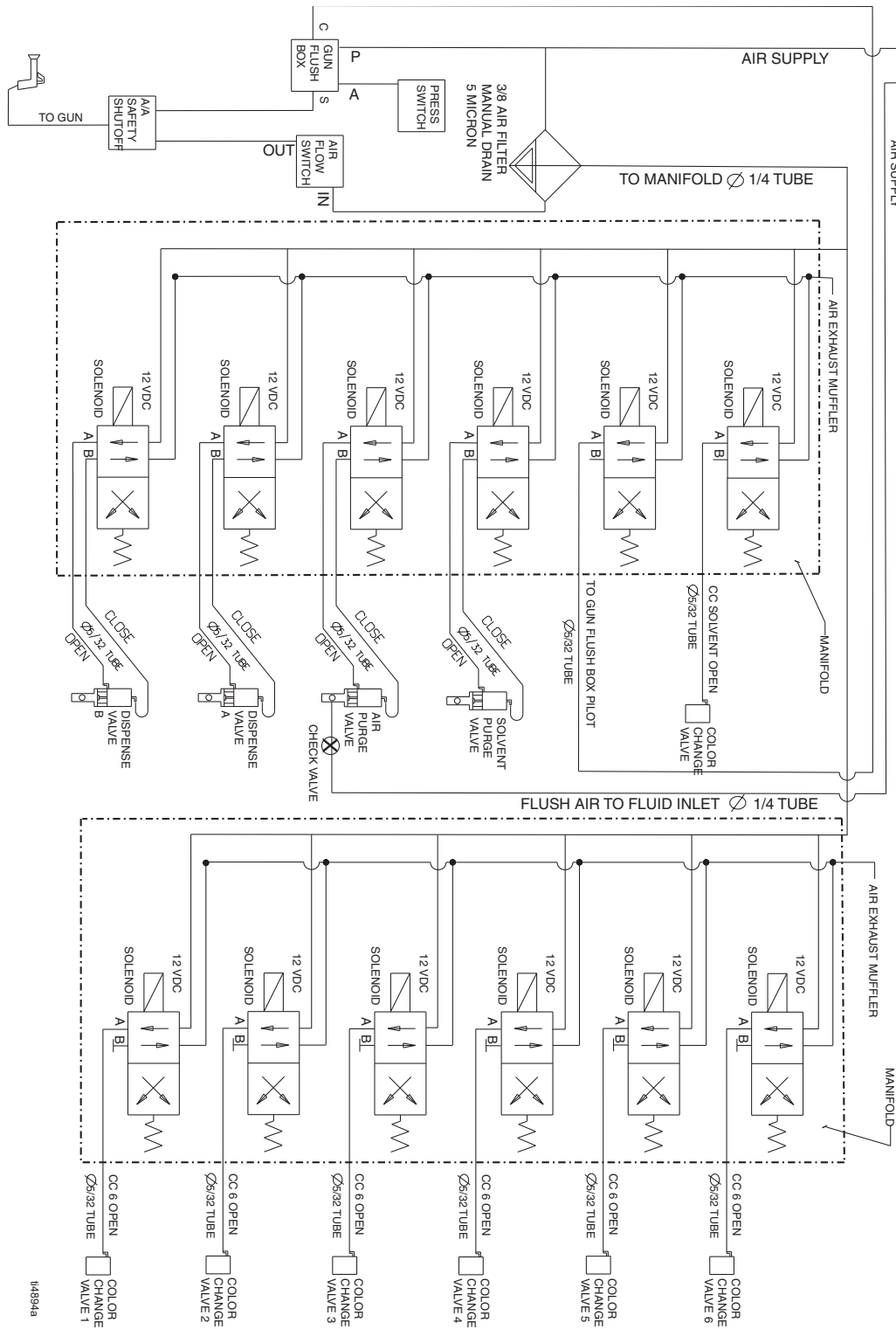
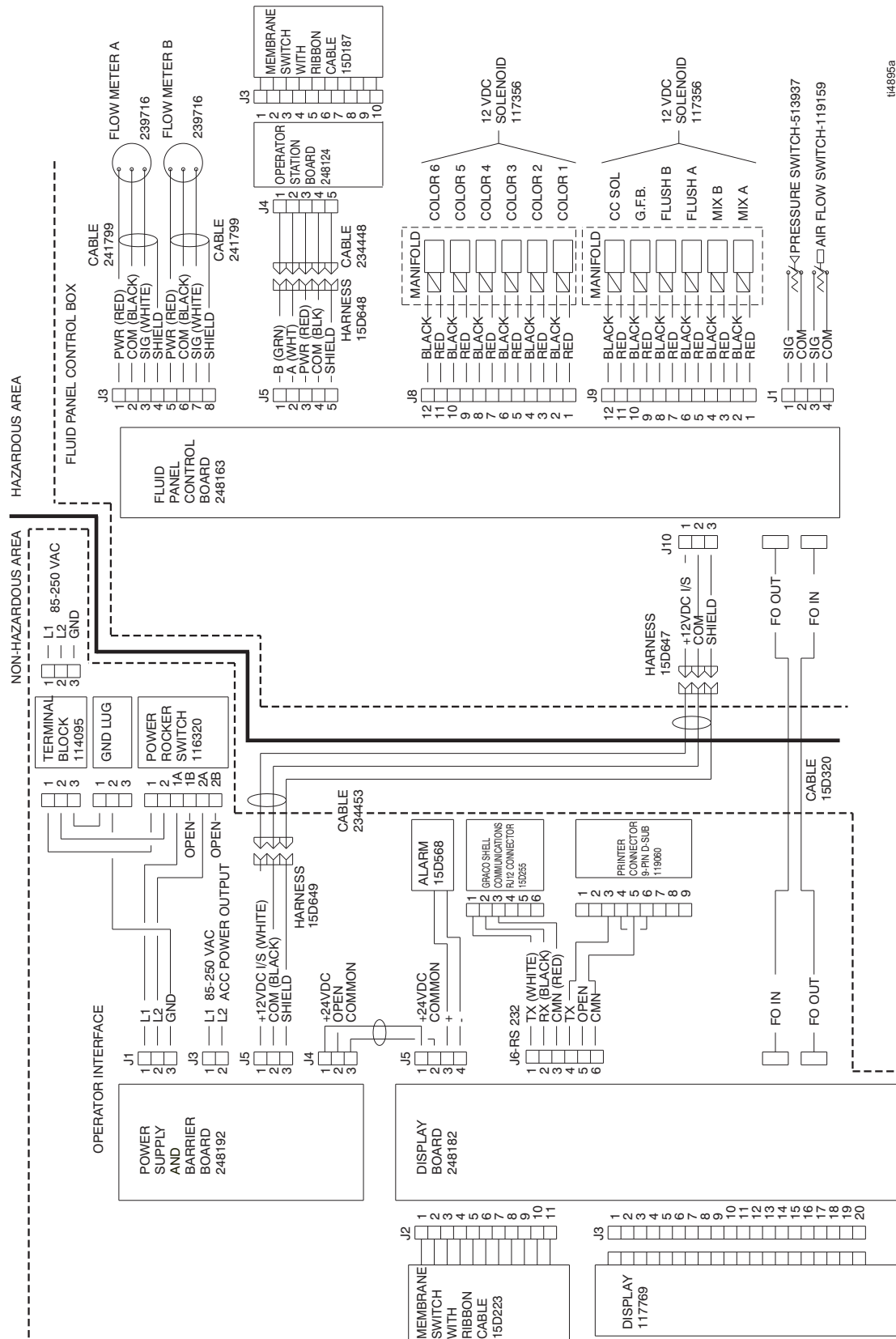


Fig. 10

T14894A

Electrical Schematic



WARNING



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

14895a

T14895A

Fig. 11

Low Pressure Color Change Kits

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

Part No. 234568, 2 color

Part No. 234569, 4 color

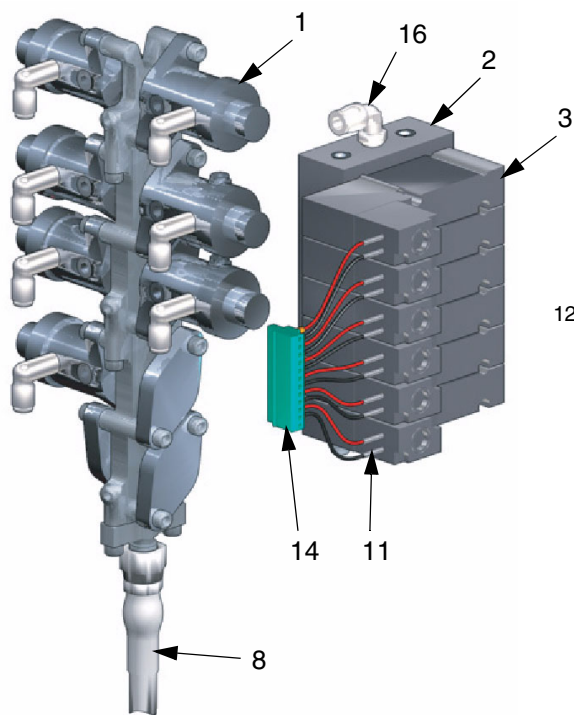
Part No. 234570, 6 color

Ref.

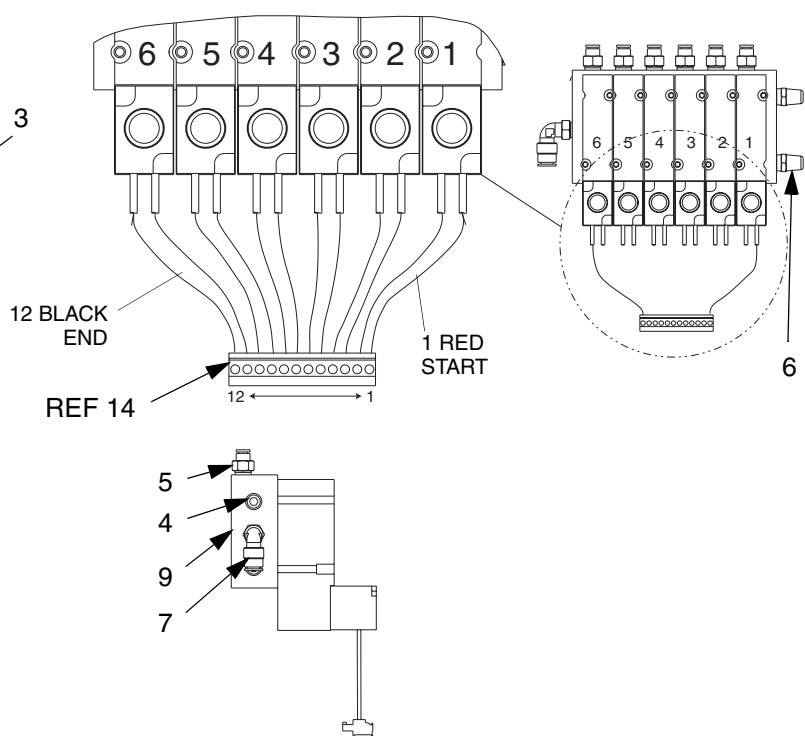
No.	Part No.	Description	Quantity		
			234568	234569	234570
1	949796	Color change Valve Stack, 2 color	1		
	220020	Color change Valve Stack, 4 color		1	
	220022	Color change Valve Stack, 6 color			1
2	552183	Plate	4	2	0
3	117356	Solenoid Valve, 12 VDC (IS)	3	5	7
4	100139	Pipe Plug	14	12	10
5	114263	Connector; 1/8 npt x 5/32 in. OD tube	3	5	7
6	C06061	Muffler	2	2	2
7	112698	Swivel Elbow; 1/8 npt x 1/4 in. OD tube	2	2	2
8	205324	Hose; 1 ft. (305 mm), 1/4 npsm	1	1	1
9	114230	Solenoid Manifold	1	1	1
10†	114669	Screw, machine	4	4	4
11	112512	Wire Ferrule, orange	6	10	14
12†	054172	Tube, nylon; 1/4 in. OD; 6 in. (152 mm)	*	*	*
13†	598095	Tube, nylon; 5/32 OD; 13 ft. (3.96 m)	*	*	*
14	117369	Plug, 12 position; 3.81 mm	1	1	1
15†	-	EEPROM, with software	1	1	1
16	166866	Elbow; 1/4-18 npt (m x f)	1	1	1

* Order length needed.

† Not shown.



234570 Shown



Solenoid Assembly
Side View

High Pressure Color Change Kits

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

Part No. 234572, 2 color

Part No. 234573, 4 color

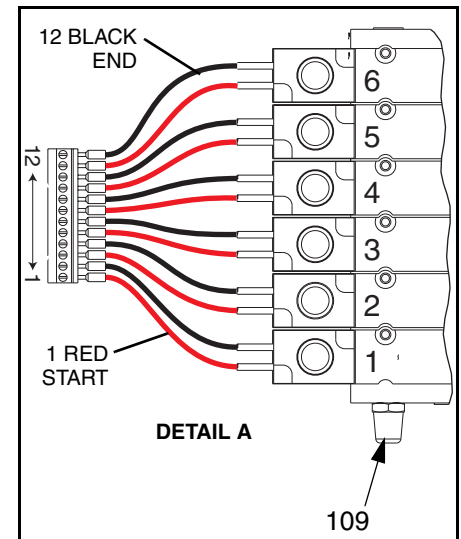
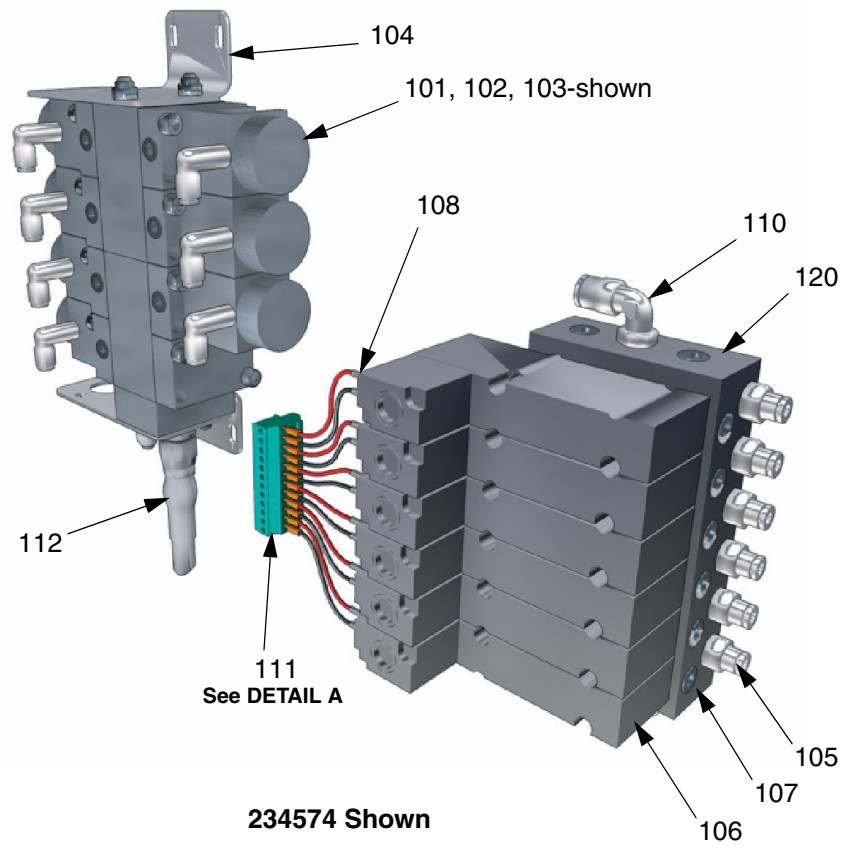
Part No. 234574, 6 color

Ref.

No.	Part No.	Description	Quantity		
			234572	234573	234574
101	248619	Color change Stack, 2 color	1	0	0
102	248620	Color change Stack, 4 color	0	1	0
103	248621	Color change Stack, 6 color	0	0	1
104	552183	Plate, solenoid	4	2	0
105†	114263	Connector; 1/8 npt x 5/32 in. OD tube	3	5	7
106	117356	Solenoid Valve, 12 VDC (IS)	3	5	7
107	100139	Pipe Plug; 1/8 -27 npt	14	12	10
108	112512	Wire Ferrule, orange	6	10	14
109	C06061	Muffler	2	2	2
110	112698	Swivel Elbow; 1/8 npt x 1/4 in. OD tube	2	2	2
111	117369	Plug, 12 position; 3.81 mm	1	1	1
112	205324	Hose; 1 ft. (305 mm), 1/4 in. npsm	1	1	1
113†	054172	Tube, nylon; 1/4 OD; 6 in. (152 mm)	*	*	*
114†	598095	Tube, nylon; 5/32 OD; 19 ft. (5.8 m)	*	*	*
115†	166866	Elbow; 1/4-18 npt (m x f)	1	1	1
117†	-	EEPROM with software	1	1	1
118	112925	Screw, cap; 1/4-20 UNC x .375 in.	4	4	4
119†	114669	Screw, machine	2	2	2
120	114230	Solenoid Manifold	1	1	1

* Order length needed.

† Not shown.



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