

*A.V.W. EQUIPMENT*

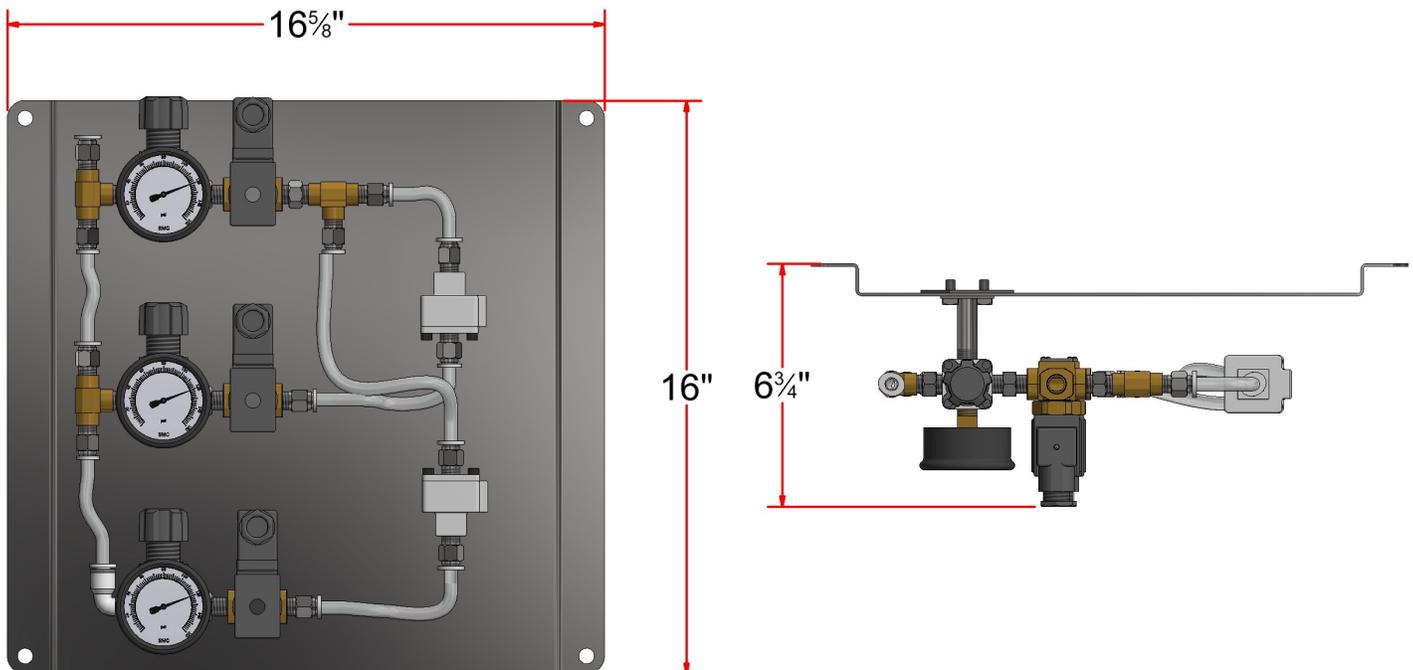
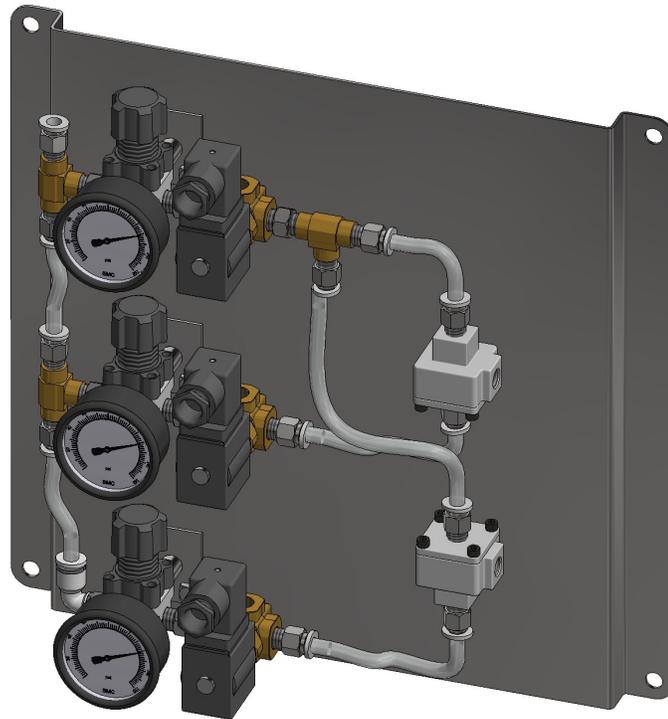
***AIR ASSIST &  
RETRACT KIT PANEL***

***Model  
WA1-SKP-2018***

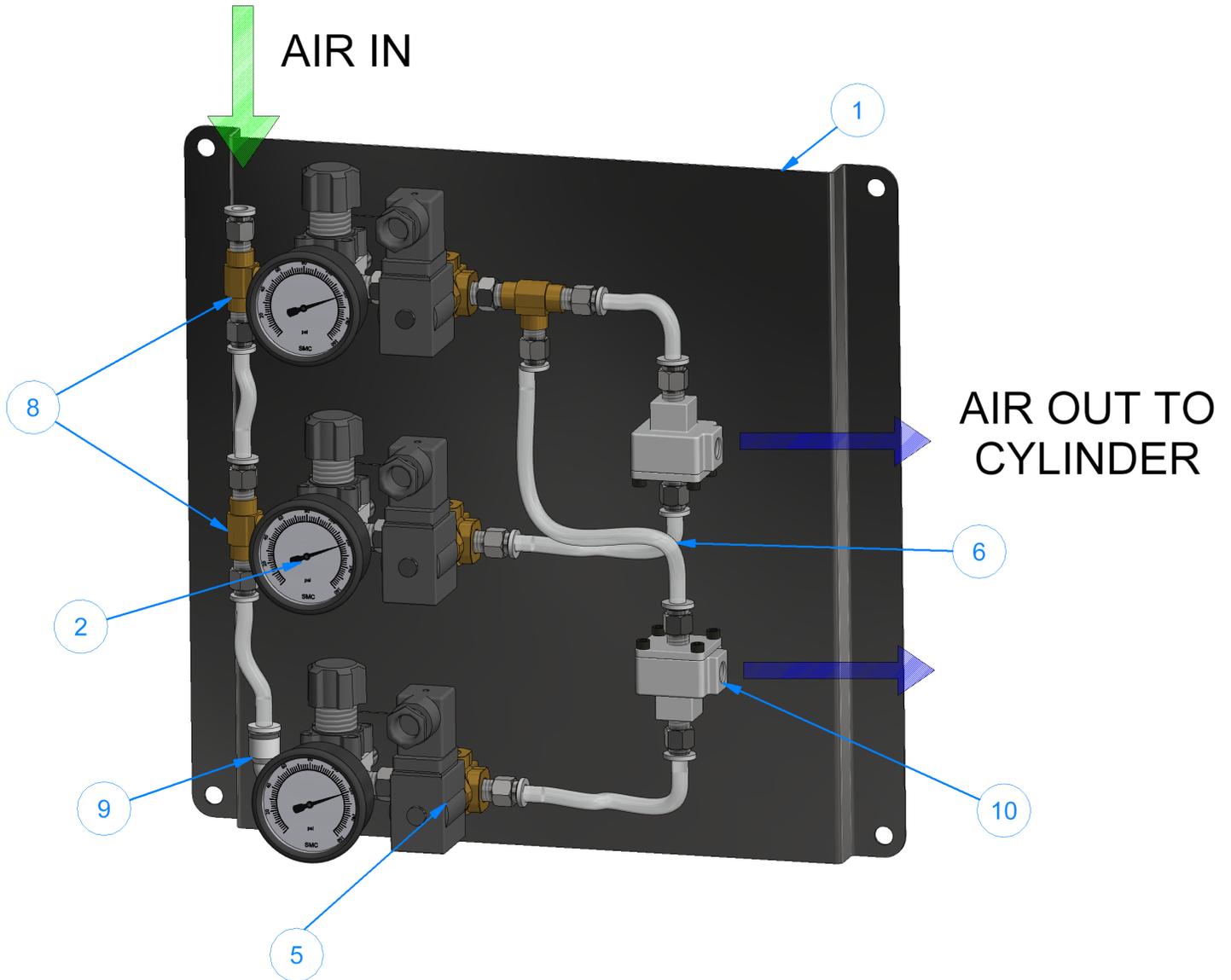


# AIR ASSIST & RETRACT KIT PANEL, MODEL WA1-SKP-2018

The WA1-SKP-2018 version of the Air Assist Panel is intended to provide a common retract for the two wrap brushes, but independent air assist. This allows for more precise timing to assist the driver side (short arm) and the passenger side (long arm) at the precise time that brush reaches the mirror or any other point on the vehicle feature where assist is desired.



# AIR ASSIST & RETRACT KIT PANEL, MODEL WA1-SKP-2018



ITEM	Description	PART NUMBER	QTY.
1	PANEL 16''x18'' (Stainless Steel)	APS1-PANEL-0209	1
2	AIR REGULATOR ASSEMBLY	AREG1	3
3	STAND OF BRACKET 1/4''	APS1SFB	3
4	COIL	SL1-4-SMC-120-3220-COIL	2
5	3-WAY DIRECTIONAL VALVE 1/4''	SL1-4-SMC120-3220	3
6	AIR HOSE 3/8''O.D x 7'' LG	AH38-7-FT	1
7	AIR PUSH FITTING 1/4''NPTx3/8 Hose	APF3814	12
8	BRASS TEE, 1/4'' Female	TEEBR025	3
9	90° AIR PUSH FITTING 3/8 -1/4''	APF3814-EL90	2
10	QUICK EXHAUST VALVE	OR25B	2
11	AIR HOSE 3/8'' O.D x6''LG	AH38-6-FT	2



## Installation and Operation Guide:

### Electrical Connections

The panel will require three controller relays.

- One relay will control the top solenoid to send retract air to both brushes simultaneously.
  - Another relay will control the middle of the three solenoids to send an assist signal to only one wrap.
- A third relay will control the bottom of the three solenoids to send an assist signal to the other wrap.

### Compressed Air Connections

Bring a single dry compressed air supply of at least 60 psi to the quick connect fitting on the upper left side of the panel to feed the manifold to the three solenoids.

- Run independent dedicated lines from each shuttle valve on the right side of the panel to the respective wrap.
- Wet supply air will cause the air cylinders to lose lubrication and either fail or cause sluggish operation of the wraps.

### To Operate

Set the timing of the solenoid valve air assist to assist the wrap at the vehicle's mirror(s) or other point at which you want to assist the wrap on the vehicle.

- For assist at the mirrors, the wrap should be left unassisted on the car until after the wrap has turned the corner from the front of the vehicle to the side.
- Before the wrap reaches the mirror, the assist signal should be sent to the solenoid to lighten the brush before it gets to the mirror.
- For reference, the controller has determined the front wheel location. Assist the respective wrap as the axle is approaching the wrap.
- Withdraw the wrap assist signals approximately 3 feet after the respective mirror.
- Set the assist air pressure regulators for both wraps at 15-20 psi to start, and adjust from there.
- Keep in mind that solenoid valves have minimum operating pressure differentials; if you try to set the assist pressure too low - at 5 psi, for example - it won't open.
- Set the retract air pressure on the top regulator at 50 psi to start, and adjust from there.
- The pressure should be set at the minimum pressure it takes to retract the brush in a reasonable amount of time; using excessive pressure will increase the wear and maintenance on the machine.

Never use the air assist kit to apply pressure to push the wraps, or any other piece of equipment, against the vehicle. AVW equipment is designed to use the slight, adjustable angle of the wrap arm bearings to weight the wrap slightly toward the car, providing the uniform force of gravity to provide a consistent pressure against the vehicle surface. The Air Assist Kit is used only to lighten the pressure of the brushes against the vehicle, or retract them altogether, as needed.

