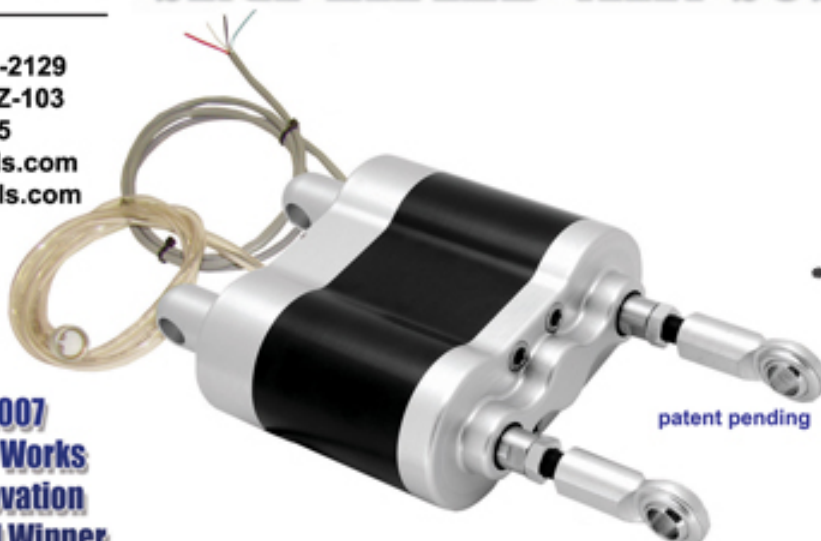




(866)438-2129 - (702)438-2129
6895 Speedway Blvd. # Z-103
Las Vegas, NV. 89115
www.customcyclecontrols.com
info@customcyclecontrols.com



**2007
Iron Works
Innovation
Award Winner**



patent pending

SAS

simplified air suspension

- No hoses to run
- No fittings to fail
- Super easy install
 - Built to last
 - made in U.S.A



**Easyriders
2008
Tech product
of the Year**

The Simplified Air Suspension was created to employ the convenience of an air shock, to keep the bike clean, by eliminating the compressor, and also to simplify the operation and install process.

No hoses to run or fear of abruptly loosing air

No worry or headache about where to mount the ugly compressor

The install is reduced to 4 bolts to mount the SAS and 4 - 18 gauge wires for a switch

All mechanical functions are protected in a CNC machined billet housing.

All Housing pieces are CNC machined of extruded billet aluminum.

- The cylinder body is Hard anodized for longevity.
- The Simplified Air Suspension uses only eleven o-rings or Pneumatic seals, which are all inset in machined passages, protected from the elements, and captivated to eliminate any chance leaking. This also eliminates the possibility of a complete air loss or blow out.
- Other Air Shocks have over 20 connections and seals vulnerable to leaks, and most of them are exposed to moving parts and the elements. On top of that the numerous external seals and connections are being vibrated, and pushed or pulled on.
- All our seals are made of the best quality material.
- The motor is a Johnson controls 170 watt with extreme power and torque.
- The solenoid is top quality from Pneumadyne INC.
- All moving parts are CNC machined to exacting tolerances, giving everything a close fit to insure smooth and solid function.
- The Simplified Air Suspension's air intake is filtered and virtually water proof when used with our remote air breather. This is an improvement over all the other air shocks on the market.
- The bottom of our unit hangs no lower than a stock shock.
- The gear bearing, piston arm in the compressor and the rod end bearings are made of oil impregnated bronze, for permanent lubrication.
- The Simplified Air Suspension is backed with an unlimited one year warranty and also a 30 day money back guarantee.

Mounting informaion / specs.

The Simplified Air Suspension has a piston travel of 1" which calculates to 3-4" travel in the swing arm.

The SAS-XL version has a piston travel of 1.625" which calculates to approximately 6" in the swing arm

The SAS-99'and SAS-00' are built around Harley Davidson stock shock specs.

For soft tail configurations year 99' and earlier, and also custom frames.

Compressed eye to eye mounting is 11.25" and can be stretched with supplied hardware.

This length can also be reduced to 9.875" with a male rod connector.

Extended eye to eye length is 12.25" with supplied hardware, and can easily be increased

The width between the front mounting flats is 2.8" compared to the 2.7" on stock Harley Davidson frames.

For soft tail configurations year 00' and later.

Compressed mounting length is 9" and can be stretched with supplied hardware.

Extended length is 10" and can be lengthend with supplied hardware.

The SAS-00 is designed to fit the full travel of your stock frame and swing arm configuration, therefore this unit will give you all the travel you need.

You will re-use your existing front bushing mounts.

SAS-XL

For custom frames that need extra travel to achieve desired ride height.

Compressed mounting length is 11.875" and can be lengthened with supplied hardware.

Extended length is 13.5" and can easily be extended with additional hardware.

Operating the system

The operation of the unit is a simple motor powering a piston to compress the air and a solenoid to release the air.

The unit comes supplied with a 4 wire 18 gauge harness.

We recommend using a 15 amp circuit with a fuse or breaker.

Motor power = red

Motor ground = white

Solenoid power = black

Solenoid ground = green

Simply add more air to the unit to reach your desired stiffness, and release the air to drop your bike.

There is also a hex head needle valve in the front of the unit for adjusting the rebound and dampening of the cylinder pistons. This is pre-set to a comfortable range, but can be adjusted by tightening the screw and then backing it out until desired rebound is achieved. The pre-set is, closed then backed out 1.5 times.

The SAS also has an accessible air intake valve, which is located on the bottom of the unit and may be opened and checked for dirt or debris.