WA Technology

Powering Radar Detector from Mirror - ITEM PWR



If you want your radar detector out of the way, the best place to install it is with a clip on the passenger visor. The added benefit of that location is you can easily connect to the 12V power available at the mirror. Power is only on when the car is running. (On my '93 Vette spliced into the visor mirror light but this was easier.) If you use the cigarette lighter and a windshield mount the power is always on and if you leave connected for a week a dead battery might greet you!

The following picture sequence shows the steps to connect the power to the mirror. Our detector is the new Passport 9500i with GPS- great product! Purchased their accessory visor clip for \$4 and a 10 foot direct power extension for \$10. It has the wire phone plug and an inline fuse. A great item included was the 3M wire splice supplied! It is small and allows you to easily remove the detector cord. To bad they only supply one!

The Detector simply clips onto the left end of the visor. Then you need to remove the plug from the back of the Mirror. There is a clip on the top, just squeeze or press it down and the plug removes. It is shown in front of the mirror in the photo.



For a C6 Corvette with auto-dim, the Pink wire, lower center, is +12V and the Black wire, top row is ground. For C6 without the auto-dim mirror the Orange wire in the top row is +12V and the Black wire, top row, is ground.	You can find the proper wire or check that you have the proper one inserting a straight pin along side the wire in the back of the plug and using a meter. It's worth the extra step.
This is the accessory you can purchase for the Passport. It is much longer than needed so you'll have to define what length you need and cut and spice it. I used a solder joint on the thin wires. Place shrink tubing over the wire before soldering. The fuse fit nicely under the top window molding by pulling it out a little. The molding will spring closed over the holder, no need for wire clips.	
The Passport direct wire cable came with a great splice connector; it's a 3M [™] Scotchlok [™] T-Tap Nylon Insulated Self-Stripping Female QuickSlide Disconnect 952K, 18-14 AWG wire sizes; 3M Id : 80-6100-8973-4. Its small size made it easy to splice into the Mirror wiring. After connecting to the wire to be spliced, a spade connector plugs into the slot. You can disconnect the cord by simply unplugging the spade connector! Used a larger solderless splice for the ground. They are both hidden behind the mirror.	
This is a photo from behind the mirror with it tilted fully toward the drive side. The blue splice connectors are visible. When placed in the proper position they are not visible. Use a few small black wire ties to fasten the Detector wires to the outside of the Mirror wire bundle.	

Have a MIG (Wire) Welder?

A Friend with a MIG Welder? Know Someone with a **Fabrication Shop?**

Do Them a Big Favor and Have Them Review the Shielding Gas Saving Information on Our Web Site:

www.NetWelding.com

If You Have a Home Shop -Have You Run Out of Shielding Gas on a Saturday or Sunday? We Have a Solution:

How Much Gas Can Be Saved??

The best way to show the savings is with an example from one of our industrial customers who tested the system then bought them for all 35 of his MIG welders.



A Texas Truck Box manufacturer evaluated the system а on repetitive job, welding doors. With their

standard gas delivery hose they welded 236 doors with a full cylinder of shielding gas. Just substituting their gas hose with our patented GSS maintaining the same flow settings they welded 632 doors! That's a 63% reduction in shielding gas use.

Weld Performance Improvement



feedback after he purchased a 3 foot GSS for his small MIG welder. ΑΙ Hackethal reported these findings:

"Well, I can't believe it. I never thought a hose could make that Copyright WA Technology, LLC; All rights Reserved. DO NOT COPY

much of a difference. I had a small job that's been waiting for a while. The weld quality, and even penetration is considerable better. Almost no spatter! The weld seemed to be hotter and I turned my MIG down a notch.

Initially thought that my imagination had kicked in, but then realized that the gas I'm buying is actually working the way it's supposed to. Glad I found your website. This is one of the few things that really works better than any info could suggest. I understood the theory. though in practice I understood much better after the first couple of welds. Now I have better looking welds and almost no spatter, which means less grinding and finish work! In addition, the tip was cleaner after the job I just did.

This will provide savings in time, labor and maybe even consumables too. As a one man shop there's never enough time for anything.

Al also has a TIG welder with 300 amp water cooled torch and bought one of our Leather Cable Covers. His email said this about it!

Oh, the leather wrap for my TIG hoses worked very well and fits perfectly. I'd just replaced the hoses and was looking for something to protect them that was better than the nylon wrap that's available around here. Now I'm "TIGing" again too, and much safer. It's good to know the coolant hoses are well protected. Much better than using a 300 amp TIG and then realizing that I was standing in a puddle of coolant. which is what recently happened. Can't pay the bills if I electrocute myself!

Thanks for making products affordable".

Another Home Shop Writes About GSS System

Perry Thomasson has a very well equipped home shop. He uses a 175 amp MIG welder. However the small welder cart only held a medium size shielding gas cylinder and Perry



wanted to reduce the number of times he had to have it filled.

He purchased the largest cylinder his distributor offered for sale and chained it to a wall in his shop. He needed a much

longer gas delivery hose so he added a 50 foot conventional 1/4 inch ID hose. He found he was using a lot of gas.

He purchased a 50 foot long GSS and saved a significant amount of shielding gas while improving his weld starts by reducing the starting surge. Since his gas regulator/flowgauge had a hose barb on the output, we supplied Perry with a splice connection on the supply end of the GSS. He simply cut the existing gas delivery hose close to the regulator and spliced in the GSS hose. The welder end uses a standard CGA fitting that is supplied with the system.

Perry emailed a picture and said;

" The system works great. Thanks for the professional service and a great product."

A Professional Street Rod Builder Had This to Say About the GSS:

They use a 250 amp MIG welder with built in feeder and a 6 foot gas delivery hose. With their standard gas delivery hose the peak shielding flow at weld start was measured at 150 CFH, far more than needed and enough to pull air into the shielding stream. Air is then sucked into the gas stream causing poor weld starts and possibly weld porosity.

With the *GSS* replacing their existing hose, the peak flow surge at the weld start was about 50 CFH and it quickly reduced to the 25 CFH setting. With the many short welds made and frequent inching of the wire, they used less than half the gas and had better starts.

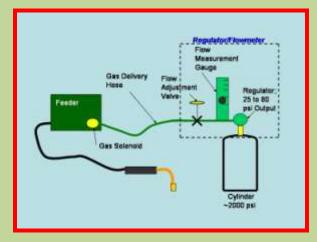


Kyle Bond, President, indicated a big benefit is the reduced time and effort

cylinders changing since it's required less frequently. He quickly saw the improvement achieved in weld start quality as a significant advantage! Kvle. excellent an automotive painter, was well aware of the effects of gas surge caused by pressure buildup in the delivery hose when stopped. He has to deal with the visible effects in the air hose lines on the spray gun in his paint booth! It's too bad we can't see the shielding gas waste as Kyle can the effects of excess pressure when he triggers his spray gun! The paint surge is visible and creates defects unless the gun is triggered off the part being painted! Kyle can manage the surge by triggering the paint gun off the part; unfortunately we can't start our weld with the MIG gun off the part ! The GSS has a built in surge flow limiting orifice that keeps the peak flow from becoming excessive. So you not only save gas you improve your weld starts!

How Does The GSS Work?

Gas waste occurs every time you pull the MIG torch trigger even if it's only to inch the wire to cut off the end.



To keep flow at the preset level the gas pressure in the cylinder regulator will be between 25 and 80 psi. Flowgauge regulators (those with a flow calibrated pressure gauge) operate in this pressure range as well.) However to flow



shielding gas though the welder and torch typically requires 3 to 5 psi depending on restrictions. Therefore every time

welding stops the pressure in the gas hose raises to the regulator pressure of 25 to 80 psi. That stores up to 7 times the hose volume of gas in the hose. This is similar to your shielding gas cylinder which holds about 150 times the volume of gas as the physical volume of the cylinder due to the high pressure!

The patented *GSS* stores over 80% less gas then typical shielding gas hoses. In addition to the wasted gas (which you can hear when you pull the torch trigger) the high flow also

causes air to be pulled into the turbulent shielding gas stream! This is like starting with the gas cylinder shut off! You have probably experienced that before when you forgot to open the valve!

It takes a short time for the shielding gas flow to return to a smooth less turbulent (laminar) flow even when the start gas surge flow reduces. That can take several seconds so when making short welds or tack welds you're not getting all the benefits of the shielding gas you're purchasing!

SUMMARY:

The *GSS* can cut your gas use in half or more. It also has a surge restriction orifice built into the fitting at the welder- wire feeder end. That limits peak flow (*but not your set flow*) to a level that avoids excess turbulence for better starts. It allows a controlled amount of shielding gas to quickly purge the weld start area.

All you need to do is replace the exiting gas hose from cylinder regulator to welder with our patented GSS. It is available in various lengths at www.NetWelding.com.

There are more testimonials at:

http://www.netwelding.com/producti on_test_results.htm

Have more questions? See:

http://www.netwelding.com/Overvie w_GSS.htm

Or email us at: TechSupport@NetWelding.com

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