
Subject: [simpits-tech] Display walk-around.
Posted by [Gene Buckle](#) on Sun, 05 Jun 2011 22:31:33 GMT
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<http://www.youtube.com/watch?v=wdr0-PVqjMk>

I can't wait to get a cockpit in there. :D

g.

--

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Subject: Re: [simpits-tech] Display walk-around.
Posted by [david](#) on Mon, 06 Jun 2011 18:03:37 GMT
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Gene and Company

Great Work!

David
www.737FlightSim.com

At 03:31 PM 6/5/2011 -0700, you wrote:

><http://www.youtube.com/watch?v=wdr0-PVqjMk>

>

>I can't wait to get a cockpit in there. :D

>

>g.

>

>

>--

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Subject: Re: [simpits-tech] Display walk-around.

Posted by [Gene Buckle](#) on Mon, 06 Jun 2011 18:35:56 GMT

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On Mon, 6 Jun 2011, David C. Allen wrote:

> Gene and Company

>

> Great Work!

Thanks!

g.

--

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Subject: Re: [simpits-tech] Display walk-around.

Posted by [Rene Koopman](#) on Mon, 06 Jun 2011 23:25:53 GMT

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Test

-----Oorspronkelijk bericht-----

Van: simpits-tech-bounces@simpits.org [mailto:simpits-tech-bounces@simpits.org] Namens Gene Buckle

Verzonden: maandag 6 juni 2011 20:36

Aan: Simulator Cockpit Builder's List

Onderwerp: Re: [simpits-tech] Display walk-around.

On Mon, 6 Jun 2011, David C. Allen wrote:

> Gene and Company
>
> Great Work!

Thanks!

g.

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Subject: Re: [simpits-tech] Display walk-around.

Posted by [Rick Davis](#) on Mon, 06 Jun 2011 23:32:35 GMT

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failed ...

:)

----- Original Message -----

From: "Rene Koopman" <rene@ejection.nl>

To: "Simulator Cockpit Builder's List" <simpits-tech@simpits.org>

Sent: Monday, June 06, 2011 8:25 PM

Subject: Re: [simpits-tech] Display walk-around.

> Test

>

> -----Oorspronkelijk bericht-----

> Van: simpits-tech-bounces@simpits.org

> [mailto:simpits-tech-bounces@simpits.org] Namens Gene Buckle

> Verzonden: maandag 6 juni 2011 20:36

> Aan: Simulator Cockpit Builder's List

> Onderwerp: Re: [simpits-tech] Display walk-around.

>

> On Mon, 6 Jun 2011, David C. Allen wrote:

>

>> Gene and Company

>>

>> Great Work!

>

> Thanks!

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> g.

>

> --

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Subject: Re: [simpits-tech] Display walk-around.
Posted by [Rene Koopman](#) on Mon, 06 Jun 2011 23:38:24 GMT
[View Forum Message](#) <> [Reply to Message](#)

Yep must been.

Finaly up to post again after so many years.

Been lurking to long.

-----Oorspronkelijk bericht-----

Van: simpits-tech-bounces@simpits.org [mailto:simpits-tech-bounces@simpits.org] Namens Rick Davis

Verzonden: dinsdag 7 juni 2011 1:33

Aan: Simulator Cockpit Builder's List

Onderwerp: Re: [simpits-tech] Display walk-around.

failed ...

:)

----- Original Message -----

From: "Rene Koopman" <rene@ejection.nl>

To: "Simulator Cockpit Builder's List" <simpits-tech@simpits.org>

Sent: Monday, June 06, 2011 8:25 PM

Subject: Re: [simpits-tech] Display walk-around.

> Test

>

> -----Oorspronkelijk bericht-----

> Van: simpits-tech-bounces@simpits.org

> [mailto:simpits-tech-bounces@simpits.org] Namens Gene Buckle

> Verzonden: maandag 6 juni 2011 20:36

> Aan: Simulator Cockpit Builder's List

> Onderwerp: Re: [simpits-tech] Display walk-around.

>

> On Mon, 6 Jun 2011, David C. Allen wrote:

>

>> Gene and Company

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>> Great Work!

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Subject: Re: [simpits-tech] Display walk-around.
Posted by [Ben Jones](#) on Tue, 07 Jun 2011 08:31:45 GMT
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Hey Gene,

Ever thought about tossing the shop vac in the corner and using a quiet
aircon compressor to "pull the vac" on the mylar sheet ??

It would be super quiet.

Regards
Ben
West Oz

>-----Original Message-----
>From: simpits-tech-bounces@simpits.org
[<mailto:simpits-tech-bounces@simpits.org>] On Behalf Of Gene Buckle

>
><http://www.youtube.com/watch?v=wdr0-PVqjMk>
>
>I can't wait to get a cockpit in there. :D
>
>g.

>Political correctness is a doctrine, fostered by a delusional, illogical
>minority, and rabidly promoted by an unscrupulous mainstream media, which
>holds forth the proposition that it is entirely possible to pick up a
turd
>by the clean end.

HaHa, Me thinks there is a good bumper sticker in that one !

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Subject: Re: [simpits-tech] Display walk-around.
Posted by [Gene Buckle](#) on Tue, 07 Jun 2011 12:35:58 GMT
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On Tue, 7 Jun 2011, bjones@pipecomp.com.au wrote:

> Hey Gene,
>
> Ever thought about tossing the shop vac in the corner and using a quiet
> aircon compressor to "pull the vac" on the mylar sheet ??
>
> It would be super quiet.
>

Ben, the shop vac will be pretty far away from the simulator when it's done - I may also isolate it in a muffle box of some kind. The bypass box will be located next to the shop vac so you won't hear the bleed air either. I'm going to try a 20' cable between the Arduino & the sensor

port on the mirror to see how it goes. I don't want to go too far or I risk killing the input channels on the Arduino due to line impedance.

I could also go the other way and have the bypass box near the mirror, but in a muffled housing that would damp out the sound.

Wayne's setup will have the advantage of piping the vacuum source through a wall (the shop vac will be in his garage) so he won't have to go to the extremes I will in order to muffle the noise.

The current setup requires nearly the full draw of the Fein Turbo III dust collector that I'm using and even with my 60gal air compressor going full tilt, I can't approach that amount of volume. The Fein will pull a 105" water column which is roughly equivalent to about 8in HG.

g.

--

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Subject: Re: [simpits-tech] Display walk-around.

Posted by [Geert](#) on Tue, 07 Jun 2011 13:38:29 GMT

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Two new marketing spin-offs:

- 1- Collimated BBQs
- 2- Vacuum cleaners that closely sound like CFM-56 7Bxx
(or P&W, RR, GE ... your choice)

:)

Subject: Re: [simpits-tech] Display walk-around.
Posted by [Gene Buckle](#) on Tue, 07 Jun 2011 14:17:33 GMT
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On Tue, 7 Jun 2011, Geert Rolf wrote:

- >
- >
- > Two new marketing spin-offs:
- > -1- Collimated BBQs
- > -2- Vacuum cleaners that closely sound like CFM-56 7Bxx
- > (or P&W, RR, GE ... your choice)
- >

Hehehe. I checked the specs earlier today and the Fein is only putting out about 58db.

I think later this summer it might be worth it to try melting steel with that mirror. :)

g.

--

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Subject: Re: [simpits-tech] Display walk-around.

Posted by [brian](#) on Wed, 08 Jun 2011 12:40:32 GMT

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> The current setup requires nearly the full draw of the Fein Turbo III dust
> collector that I'm using and even with my 60gal air compressor going full
> tilt, I can't approach that amount of volume. The Fein will pull a 105"
> water column which is roughly equivalent to about 8in HG.

Just spitballing here, but IIRC there's a fair amount of space behind
the mirror, no? It seems if you could reduce that volume that maybe your
vacuum requirements would be eased.

Just thinking about our sim and how the mirror is set up, and the
backing behind it matches the shape of the mirror pretty closely. I'm
sure there are multiple reasons, but it stands to reason that one of
them is to minimize the amount of volume you're drawing the vacuum on.

Food for thought.

Brian

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Subject: Re: [simpits-tech] Display walk-around.

Posted by [Gene Buckle](#) on Wed, 08 Jun 2011 13:31:13 GMT

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On Wed, 8 Jun 2011, Brian Sikkema wrote:

>
>> The current setup requires nearly the full draw of the Fein Turbo III dust
>> collector that I'm using and even with my 60gal air compressor going full
>> tilt, I can't approach that amount of volume. The Fein will pull a 105"
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> backing behind it matches the shape of the mirror pretty closely. I'm
> sure there are multiple reasons, but it stands to reason that one of
> them is to minimize the amount of volume you're drawing the vacuum on.
>

It's not so much the volume as it is the vacuum required to stretch the Mylar in the desired shape. Commercial systems have a smaller space because they build the Mylar framework as a single monolithic assembly that is perfectly air tight. They can use a much smaller vacuum inlet that feeds a much lower CFM, but much higher draw vacuum pump. Because our system is very (comparatively) "leaky", it takes a pretty stout CFM rating to keep the mirror formed properly, but not that much actual draw (if that makes any sense). The max the Fein can pull is about 7.7PSI, which in the world of vacuum pumps is pretty weak. The tiny vacuum pump I bought to test with can pull 25 inHG (Fein can do about 8 inHG) or roughly 12psi. Unfortunately the small vacuum pump has such a low CFM rating that it can't overcome the system losses AND hold the mirror shape.

We're going to be adding reinforcing ribs to the frame on Saturday to avoid deforming the back and we'll do some caulking & adjusting at that point to drop the losses as best we can.

If I could afford it, I'd just build one out of fiberglass. That would be a pretty expensive undertaking though - especially when working with a plug mold that size. :)

g.

--

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Subject: Re: [simpits-tech] Display walk-around.
Posted by [cyplesma](#) on Wed, 08 Jun 2011 14:29:58 GMT
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On Wed, 8 Jun 2011, Brian Sikkema wrote:

>
>> The current setup requires nearly the full draw of the Fein Turbo III dust
>> collector that I'm using and even with my 60gal air compressor going full
>> tilt, I can't approach that amount of volume. The Fein will pull a 105"
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>
> Just thinking about our sim and how the mirror is set up, and the
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If I could afford it, I'd just build one out of fiberglass. That would be a pretty expensive undertaking though - especially when working with a plug mold that size. :)

g.

How about using fiberglass with this method:

<http://www.rqriley.com/frp-foam.htm>

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Subject: Re: [simpits-tech] Display walk-around.
Posted by [Gene Buckle](#) on Wed, 08 Jun 2011 14:34:10 GMT
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On Wed, 8 Jun 2011, cylesma@aol.com wrote:

> If I could afford it, I'd just build one out of fiberglass. That would be
> a pretty expensive undertaking though - especially when working with a
> plug mold that size. :)
>
> g.
>
>
> How about using fiberglass with this method:
>
> <http://www.rqriley.com/frp-foam.htm>
>

If I'm going to make the investment in materials and know-how to build one
out of fiberglass, I'm going to make more than just one or two. :)

g.

--

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Subject: Re: [simpits-tech] Display walk-around.
Posted by [cyplesma](#) on Wed, 08 Jun 2011 14:49:30 GMT
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If I'm going to make the investment in materials and know-how to build one out of fiberglass, I'm going to make more than just one or two. :)

g.

don't blame ya there.

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