

Here are my recommendations, from my experiences of 6 years servicing Sensabrakes.

- 1) **Make sure you drain the air from the Sensabrake Actuator whenever the trailer is parked up.**
 - a) The Sensabrake is not designed to be used as a Park Brake.
 - b) Leaving the air in the Sensabrake will keep any moisture trapped inside.
 - c) The Sensabrake Hydraulic seals will weaken and expand under the continual pressure, reducing the seal function and shorten their life.
 - i) If you find the Trailer Calipers are starting to bind on the Brake Rotor and the Brake Rotors are getting very hot. This could be caused by the Sensabrake Hydraulic Seals sticking and holding, therefore retaining hydraulic pressure on the calipers.
 - ii) Or it could also be caused by 2) c) below.

- 2) **Ensure you have bled the brakes properly.**
 - a) Any air in the brake fluid will cause the compressor to fail from being over worked.
 - i) A properly bled system will allow up to 6-8 brake applications before the Compressor starts up again.

- 3) Change the brake fluid about every 2 years on a Boat trailer
 - a) **Don't use the Sensabrake to bleed the brakes.**
 - i) The Sensabrake Actuator is far too fast and will cause the brake fluid to ariate.
 - b) **Use the Sensabrake Bleed Gun supplied with the Actuator –**
 - i) or use a vacumn bleeder found in most Automotive Workshops.
 - c) **Do Not Overfill/Spill the Brake Fluid Bottle.**
 - i) Spilt Brake Fluid will enter the pneumatic cylinder through a hole at the base of the cylinder and contaminate the 75mm diameter pneumatic seal. This pneumatic seal will then go soft and expand, stopping the stroking

action of the piston. The result is no brake fluid being pumped and no pressure.

4) Keep the trailer connection plug in good condition.

- a) The power supply to the Sensabrake **MUST** be 12 volt or better.
 - i) Anything less than 12 volts will cause the electronics in the Sensabrake to start doing funny things.
 - (1) Like dumping air which will cause the mouse beeper to start up, which equals no trailer brakes.
- b) Moisture inside the plug **WILL** cause the brakes to come on whilst you are driving.
 - i) 90% of all the phone calls I get requesting help, would relate to a poor/wet plug connection.
- c) The other (best recommended) option is to fit a 7 Pin Round Plug to your Trailer Sensabrake and tow vehicle. (shown below) and use the Flat 7 Pin Plug for the Trailer Lights only.
 - i) Use this 7 Pin Plug just for the 4 wires feeding the Sensabrake
 - ii) The HT1400 Sensabrake could also be wired (2 core cable) through this plug



- iii) http://www.trailerparts.nz.com/product_info.php/plug-pin-round-metal-12n-euro-p-1125
- iv) http://www.trailerparts.nz.com/product_info.php/plug-pin-round-metal-socket-12n-euro-p-1128

- v) Suggested Plug Wiring as below
 - (1) Pin 3 – Black Earth
 - (2) Pin 6 – Red 12 volt supply
 - (3) Pin 5 – Blue Brake Signal
 - (4) Pin 2 – Brown Diagnostic Signal



7 Pin Plug