



GREEN BEACON SYSTEM - i

THE PLUG AND PLAY SAFETY DEVICE



INFORMATION PACK

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YOUR SEAT BELT WILL SAVE YOUR LIFE

The HSE has recently produced Research Report 1066 - The use and non-use of seat belts in the operation of forward tipping dumpers.

They have identified that in the event of a forward tipping dumper (FTD) overturning, the operator will be protected from death and serious injury by wearing their seat belt.

The seat belt works in combination with the roll over protection system (ROPS) to keep the operator in their seat and preventing them being crushed by the machine.

But it doesn't stop there. We believe that all working construction machinery on site should be fitted with a seat belt to help ensure the operators safely.

GREEN BEACON SYSTEMS FROM HTS

To greatly improve the safety of Plant Operators, many of the UK's top construction companies have looked at ways of ensuring that operators wear their seat belt for their own safety. A number of these companies have specified the use of an electrical interlock system, that requires the seatbelt to be engaged for the green beacon on top of the machine to operate.

These systems can be time consuming to fit and, in many cases, a costly option.

This is why we are pleased to introduce GBS-i: the intelligent new green beacon system. The easy-to-fit, flexible safety device that gives you multiple options to ensure your operators safety when driving plant machinery, by enforcing the wearing of a seat belt.

We have worked with some of the biggest operators of plant machinery in the UK to develop this plug and play system, to ensure it is both easy to fit in all applications.

Not only does the system connect to a green beacon mounted on the ROPS bar, cab roof or bonnet but also has the ability to connect to a dash mounted warning device to alert the operative they are not wearing their belt. Further to this, the system can be connected to an immobilizer of your choice that forms an engine stop if the belt is not fastened.

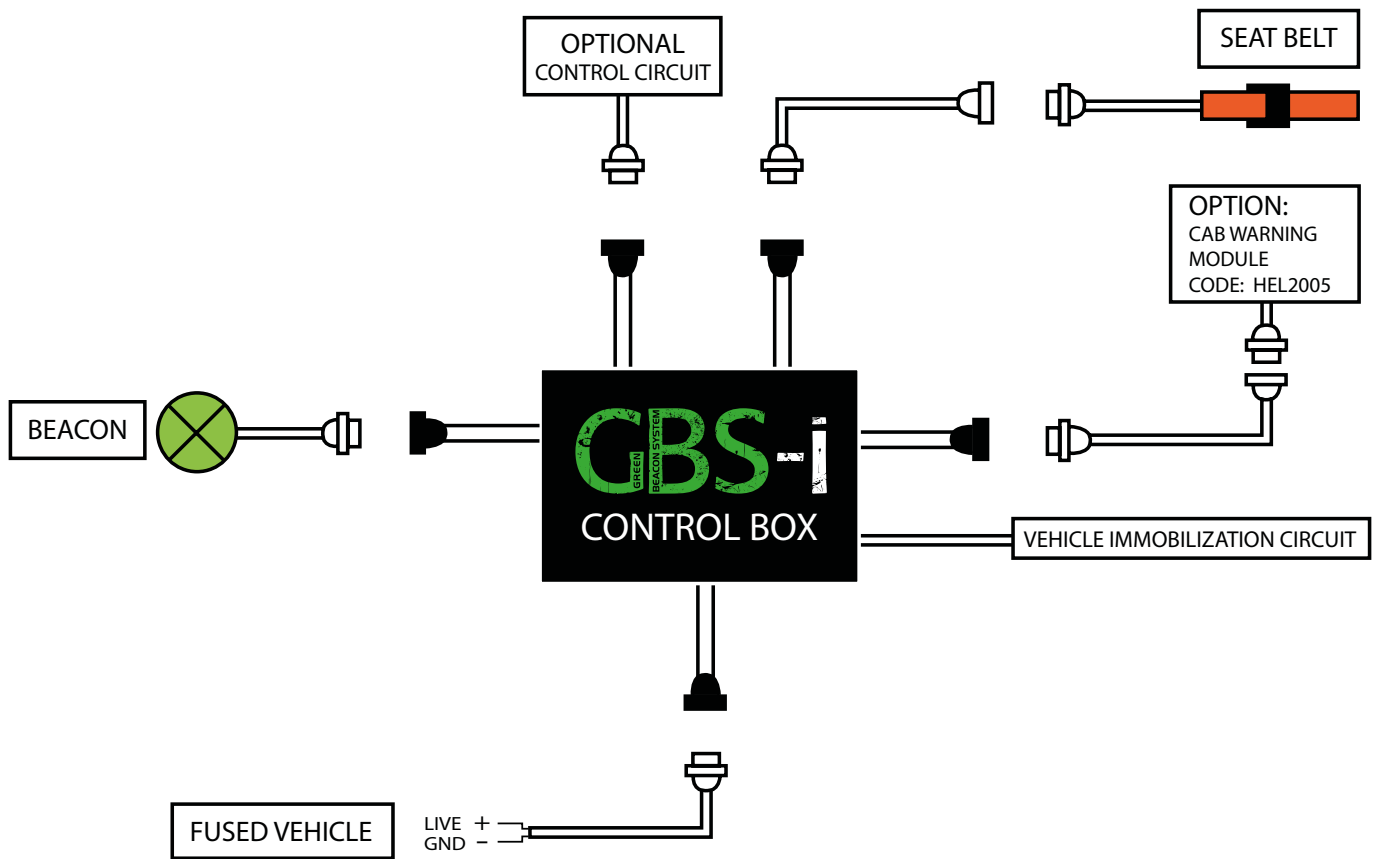
The whole system is completely water and dust proof with a IP67 rating, making it suitable for every application.

The plug and play safety device from HTS...

We make it easy.



SCHEMATIC OVERVIEW



SYSTEM OVERVIEW



KIT CONTAINS:

- PLUG AND PLAY BOX
- BOLT ON SPIGOT MOUNT WITH LEAD
- FLEXI MOUNT GREEN LED BEACON
- 3 X QUICK CONNECT LEADS
- ORANGE RETRACTABLE SEATBELT WITH 3 WIRED MICROSWITCH

INSTALLATION INSTRUCTIONS

1. Fit the plug and play console box securely, as near to the seat as possible.
2. Plug the power supply cable into the socket on the console.
Connect the cable to a power source on the machine.
3. Fit the beacon spigot in the required position.
REMEMBER DUMPER ROPS BARS MUST NOT BE DRILLED
4. Fit the beacon to the spigot.
5. Connect the beacon cable to the tail on the underside of the spigot. Run the cable back to the console and plug it into the relevant socket. This can be identified by the sticker on the upside of the console.
6. Fit the lap belt to the seat and connect the second power cable (short) to the tail on the buckle end of the lap belt.
7. Connect the power cable (short) into the console.
8. Test the system.
When the lap belt is connected, the green beacon should flash. When the lap belt is disconnected, the flashing should stop.

CORRECT LAP BELT INSTALLATION

It is essential that the lap belt is fitted correctly. It is a vital safety device and incorrect installation could cause injury or even death.

1. Fit the buckle to the left hand side of the seat as you sit on it. Do not tighten the bolt at this point.
2. Fit the retractor end of the belt to the right hand side of the seat as you sit on it. This retractor reel contains ball bearings which lock the belt when in a position other than 60 degrees, through to horizontal. In the event of the machinery rolling over, the belt locks without requiring a force acting upon the inertia mechanism, ELR (Emergency Locking Retractor).
3. Ensure the belt pulls freely outwards. If it doesn't pull freely outwards, slightly adjust the angle and re-try. Repeat this procedure as necessary until the belt pulls freely.
4. Tighten the bolts on both the buckle end and retractor end.

DISCLAIMERS AND WARNINGS

This booklet contains important information required for the correct installation of the GBS-i. Please ensure you have read this booklet thoroughly before installation and/or operation of the system.

HTS cannot accept responsibility for the incorrect installation of the system.

HTS can not accept responsibility for the training of operators on the correct use of this system. It is the responsibility of the of the end user to ensure all operators are fully trained for the use of the system.

It is the responsibly of the end user to carry out the installation of this system in accordance to the recommendations outlined in this booklet.

HAZARD WARNINGS

Improper operation, repair or maintenance of this system or any of its components can be dangerous and could result in injury or death. Never operate or perform any maintenance or repair on this product until you have read and fully understood the operation, repair and maintenance information.

Most accidents that involve product operation, repair and maintenance are caused by failure to observe basic safety rules and precautions. Accidents can most often be avoided by recognising potentially hazardous situations before the accident occurs. A person should be alert to potential hazards.

INSTALLATION

HTS recommends this safety system should only be installed by a competent person.

REPLACEMENT PARTS

HTS do not recommend aftermarket or non-genuine replacement parts should be used with this system. All parts supplied by HTS have undergone stringent quality processes to ensure the parts meet the highest safety requirements.

We recommend that you display the below sticker on all working vehicles fitted with the GBS-i.



STICKER CODE: HSP0204

SEAT BELTS

To ensure that they are worn, provide a comfortable belt that adjusts with both movement of the driver and the motion of the seat.

Belts should be kept clean and operators should carry out daily checks of their condition.

A defect will seriously jeopardise your safety.

Belts can become damaged at any stage of the vehicle's life. A small 4mm cut or a hole the size of a shirt button in a seat belt may reduce its strength by a staggering 70%.

Under no circumstances should used or second-hand belts be fitted.

In an accident, the belt absorbs some of the enormous energies by stretching.

Even at just 30mph the rapid deceleration is equivalent to hurling an adult seat belt wearer against the belt with a weight equivalent to a three tonne elephant.

This can cause the belt to permanently stretch by up to 13%.

Next time it would not absorb the same energy in an impact.

This could mean the difference between life and death.

DAILY SEAT BELT CHECKS

The areas to check are the seat belt webbing, the buckles/fixings and the retractors.

Wear and tear or abuse can affect all these parts.

We suggest that these should be checked daily for the following signs:

- Webbing with nicks, cuts or holes caused by abuse.
- Buckles which don't lock securely or have become worn out due to wear and tear.
- Buckles that have been damaged by being caught, stood on, or have had items such as sweets and chewing gum pushed into them.
- Movement or clicking noise in enclosed stalks.
- Retractor mechanisms which don't fully retract the belt or lock the belt securely into position.

For more information, or to purchase the GBS-i or any other of HTS' green beacon systems, visit www.htsspares.com. Or call 01432 373350 to speak to a member of our team.