



*Industrial &
Plant Spares*

SEAT BELT LIGHT WARNING SYSTEM



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.

SEAT BELT LIGHT WARNING SYSTEM

To greatly improve the safety of Dumper 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 before the machine will start.

We have developed a system that can be fitted to all dumpers on UK construction sites. The system comprises an interlock within the ignition system that prevents the dumper from being started until the operators seatbelt is activated.

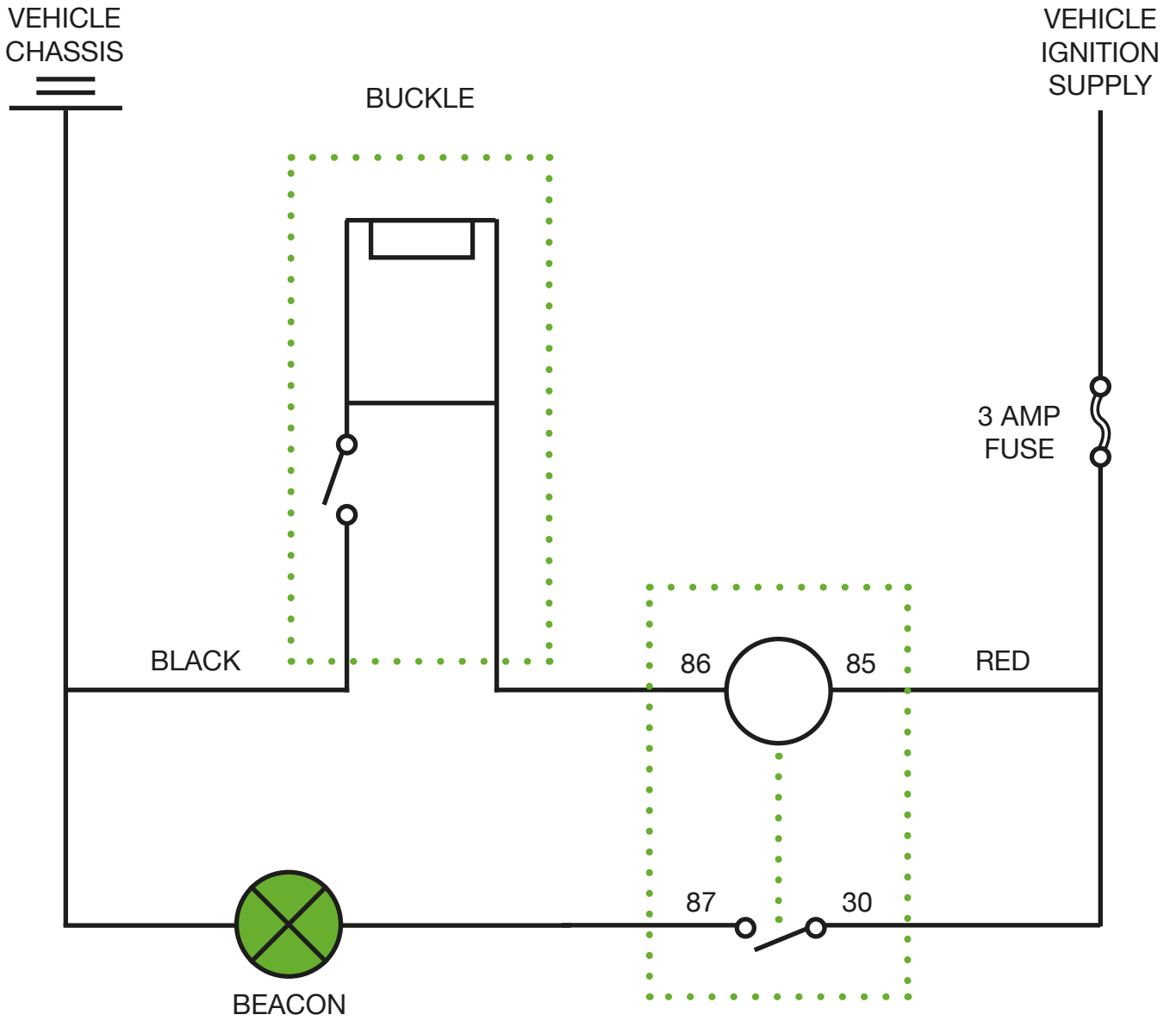
The wearing of the seatbelt is shown by a green flashing beacon mounted on the dumper ROPS bar or bonnet.

We have worked hard to develop a robust system that provides a safer working environment for dumper operators.



SCHEMATIC OVERVIEW

STROBE AND ENGINE IMMOBILISER



SYSTEM OVERVIEW - SEAT BELT INDICATOR SYSTEM



Kit contains:

- Bolt on spigot mount
- Flexi mount green LED beacon
- In-line fuse holder
- Orange retractable seatbelt with 3 wired microswitch

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 seatbelt 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 seatbelt 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 seatbelt 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



INSTRUCTIONS

We recommend that you display the below sticker on all working vehicles fitted with the seat belt light warning system.



STICKER CODE: HSP0204