

DAF Safety Solutions

HGV Safety Permit Guidance for DAF Vehicles



Working towards a safer future



The focus on road safety in London and other UK cities is as welcome as it is very necessary. The growth in cycling, especially in the capital, means safety for vulnerable road users in urban environments requires a multifaceted approach that encompasses infrastructure,

traffic management, human behaviour and segregation of road users. Naturally, vehicle design does and will in future, play an instrumental role.

Alongside other initiatives being introduced by Transport for London, such as infrastructure development and training, the new HGV Safe System Permit scheme is set to play an important part in delivering Vision Zero – the action-plan designed to reduce the number of deaths and serious injuries on London's roads to zero by 2041. Fatalities and serious injuries resulting from road traffic accidents, bring devastating consequences that no family should face.

While compliance will present its challenges, pursuit of Vision Zero demands a concerted effort from everyone in the road transport industry.

Laurence Drake
Managing Director, DAF Trucks



HGV Safe System

for DAF CF & XF

To qualify for a London Safety Permit, it is necessary to fit additional equipment to the DAF CF and XF. Developed in partnership with Brigade Electronics, the systems are type approved and installed by DAF Trucks to stringent engineering quality standards and included in the CF & XF two-year vehicle warranty. As factory installed options, parts and service support is provided by the DAF Dealer Network and can be included in a DAF MultiSupport Repair and Maintenance package, to provide maximum assurance at a predetermined price.

Monitor

Mounted on the near-side door grab handle and activated by the left turn signal (for near-side camera) or when reverse gear is selected (for rear-view camera).



Four Ultra-Sonic Sensors and Buzzer

Mounted on the left hand side and activated on a left turn signal (inactive on hazard lights). Active up to 20 mph (around 30 km/h). The buzzer is mounted below the monitor.



Although not required for the HGV Safe System, the rear view camera is now available as an optional extra:

Rear-View Camera

Supplied loose for fitment by a dealer or body builder. Rear-view camera extension cables are not included but are available from PACCAR Parts to suit specific body dimensions. Activates when reverse gear is selected.

Near-Side Camera

Activates with the left turn signal (including hazard lights) at any speed. Deactivates when signal is cancelled.



Audible Warning

A spoken and white noise warning is activated by the left turn signal. With 'night silent' cut off switch.



What is a Safe System?

The minimum Transport for London Safe System requirements are:

1. Class V (kerb-view close proximity) mirror shall be fitted to the near-side of the vehicle
2. Class VI (front-view) mirror shall be fitted to the front of the vehicle
3. Side under-run protection shall be fitted to both sides of the vehicle (except where this is impractical or proves to be impossible). Tractor units are exempt

4. External pictorial stickers and markings shall be displayed on vehicles to warn vulnerable road users of the hazards around the vehicle
5. A sensor system that alerts the driver to the presence of a vulnerable road user shall be fitted to the nearside of the vehicle
6. Audible vehicle manoeuvring warning shall be fitted to warn vulnerable road users when a vehicle is turning left
7. A fully operational camera monitoring system shall be fitted to the near-side of the vehicle
8. Transport for London also make recommendations for additional optional enhancements that operators may choose to fit

Further safety options from DAF

In addition, DAF offers a range of factory-fitted Brigade camera and sensor solutions, which include a forward facing camera, driver-side camera, load space camera, video recording and rear ultrasonic sensors. These supplementary packages are designed to enable operators to further reduce the risk to vulnerable road users, avoid the cost and downtime caused by collisions and to make manoeuvring safe and easier. And by recording images from around the vehicle, operators can protect themselves and their drivers from false and malicious claims, which could otherwise lead to higher insurance premiums.

Package	1	2	3	4
Near-side camera	Included in all supplementary packages			
Ultrasonic sensors near-side				
Audible left turn warning				
Rear-view camera				
Forward facing camera	✓	✓	✓	✓
Driver-side camera	✓	✓	✓	✓
4 channel recorder	✓	✓		
Load space camera			✓	✓
8 channel recorder			✓	✓
Rear ultrasonic sensors		✓		✓



◀ For existing vehicles, DAF Dealers offer a range of camera and sensor solutions in the TRP Range, from leading suppliers Brigade and Durite to meet the Safe System requirements and more.

Forward Facing Camera

Dash mounted forward facing camera. Image is recorded but not displayed on a monitor.

Driver-Side Camera

Located at the right-hand side. Image is recorded but not displayed on the monitor.

Load Space Camera

Supplied loose for fitment by a dealer or body builder. Load Space camera extension cables are not included. Image on the monitor is activated by a dash mounted switch.

Four Rear Ultra-Sonic Sensors and Buzzer

Activated with reverse gear. Supplied loose for fitment by a dealer or body builder. Sensor display mounted above the in-cab monitor, alerts the driver using an audible warning and distance display.



Mobile Digital Recording

All supplementary packages include a mobile digital recorder which records images from all cameras to provide:

- Proof against insurance claims such as 'crash-for-cash' scams
- Recording provides protection for drivers who may be wrongly accused
- Provides irrefutable evidence in the case of accidents and legal proceedings
- Encourages driver best practice, so less vehicle damage and fewer accidents
- Vandalism deterrent
- Peace of mind for passengers and drivers

DAF LF

HGV Safety Permit

The Euro VI DAF LF Series achieves a Direct Vision rating of one or two stars, dependent on specification, making the Euro VI DAF LF eligible for Safety Permit until October 2024 without additional equipment.

Vehicle Type	Cab Suspension Type	Tyre Size	Star Rating	Star Rating - with Kerb-View Window*
DAF LF 14-16 Tonne GVW FA 4x2 Rigid	Mechanical (four point, coil spring)	245/70R19.5	2 Stars	2 Stars
		265/70R19.5	1 Star	2 Stars
		285/70R19.5	1 Star	2 Stars
	Mechanical and Rubber (rubber bushes at the front, coil spring at the rear)	245/70R19.5	2 Stars	2 Stars
		265/70R19.5	2 Stars	2 Stars
		285/70R19.5	2 Stars	2 Stars
DAF LF 16 Tonne GVW FA 4x2 Road Sweeper	Mechanical and Rubber (rubber bushes at the front, coil spring at the rear)	285/70R19.5	1 Star	2 Stars
DAF LF 13 Tonne GVW FT 4x2 Tractor Unit	Mechanical (four point, coil spring)	265/70R19.5	1 Star	2 Stars
DAF LF 18 Tonne GVW FA 4x2 Rigid	Mechanical (four point, coil spring)	295/80R22.5	1 Star	1 Star
		305/70R22.5	1 Star	2 Stars
		315/70R22.5	1 Star	1 Star
		315/80R22.5	1 Star	1 Star
DAF LF Construction 18 Tonne GVW FA 4x2 Rigid	Mechanical (four point, coil spring)	315/80R22.5	1 Star	1 Star



* Kerb-View Window star ratings apply to all DAF LFs produced with the option of a kerb-view window in the passenger door

Appendix:

The London Safe System Permit Scheme

What, Where and When?

The HGV Safety Permit Scheme will start on 26th October 2020 and be operational 24 hours a day, 7 days a week within the Greater London Area. Operators will need to hold a Safety Permit for all heavy goods vehicles over 12 tonnes GVW that operate within the zone or face a Penalty Charge Notice (PCN).

Making your Vehicle Compliant



From 26th October 2020:



Minimum rating required to obtain a safety permit

From October 2024:



Minimum rating required to obtain a safety permit

All Euro VI trucks, plus some older vehicles, have been assessed against the Direct Vision Standard (DVS) according to a star rating system from zero to five stars.

From **26th October 2020**, the minimum DVS rating to obtain a Safety Permit will be one star and this will then increase to a minimum of three stars in 2024.

Vehicles with zero stars will still be able to obtain a Safety Permit enabling them to operate in London beyond October 2020, by meeting the requirements of a Safe System.

Certain vehicle types are fully or partially exempt from the requirements of the scheme. See the Transport for London website for more information.

Progressive Safe System

The Safe System will be reviewed and consulted on in 2022. A 'Progressive Safe System' will take into account any additional technology or safety equipment not currently available on the market.

Any new equipment or technology proposed for the Progressive Safe System must be retrofittable to HGVs, industry recognised and readily available on the market at the time.

From October 2024, HGVs rated below three stars will need to feature the Progressive Safe System.

Applying for the HGV Safety Permit

The on-line application process for the Direct Vision Standard HGV Safety Permit, enables operators to check their vehicles' star rating and to apply for HGV Safety Permits at the following webpage:

<https://tfl.gov.uk/modes/driving/dvs-safety-permit-application/>

Operators can make applications for individual vehicles or submit fleet lists for applications of five to 3000 vehicles.

DAF has provided star rating data to TfL for existing vehicles, so that applicants can check the star rating for their DAF vehicles, based on the vehicle registration mark.

Poor Direct Vision:



Good Direct Vision:



Direct Vision Standard Star Ratings and Safe System Requirements

Series	DVS Star Rating	HGV Safety Permit
DAF LF (Euro VI)	One or Two stars (dependent on wheel/tyre size, cab suspension & factory kerb-view window fitment)	Eligible for HGV Safety Permit valid until October 2024**
DAF LF (Euro 4 & 5) 18 tonne GVW (22.5" wheels)*	Zero Stars	Additional Safe System items required to obtain a Safety Permit valid until October 2024**
DAF LF (Euro 4 & 5) 15 & 16 tonne GVW (19.5" wheels)*	One Star	Eligible for HGV Safety Permit valid until October 2024**
DAF CF & XF	Zero Stars	Additional Safe System items required to obtain a Safety Permit valid until October 2024**

* The introduction of the DVS HGV Safe System on 26th October 2020 coincides with the planned tightening of the London Low Emission Zone requirement to Euro VI. The expectation is that few, if any, pre-Euro VI vehicles will operate in the zone beyond this date

** Zero, one and two star vehicles will need to be fitted with a 'Progressive Safe System' from October 2024

For vehicles with one or more stars, applicants are able to apply for and obtain an email confirmation of their HGV Safety Permit. One and two star permits are valid until October 2024, when the minimum requirement changes to three stars. Permits for vehicles with three, four or five stars are valid for 10 years.

Vehicles with zero stars are required to provide evidence of a Safe System in the form of two photographs. In the case of multi-vehicle applications TfL will choose a percentage of the zero star rated vehicles and ask applicants to provide safety evidence for them. The exact number will be based on the overall number of zero star rated vehicles in the application.

What Safe System Photos Must Show

Photos must:

- Clearly show the front and near-side (passenger side) of the HGV
- Clearly show the rear and near-side (passenger side) of the HGV
- Ensure the number plate (Vehicle Registration Mark) can be clearly read in both photos at the front and rear of the vehicle.

Provide evidence that the following safety features are fitted to the vehicle:

- Class V mirror (Side close proximity mirror)
- Class VI mirror (Front projection mirror)
- Side under-run protection
- Warning signage



If the vehicle is partially exempt and not required to have specific safety features fitted, the photo should support the reason for exemption. There is no charge to apply for a HGV Safety Permit.

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